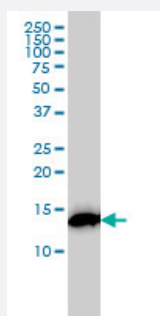


# RPS19 monoclonal antibody (M01), clone 3C6

Catalog # H00006223-M01

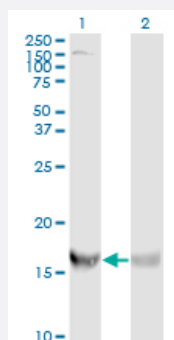
Size 100 ug

## Applications



### Western Blot (Cell lysate)

RPS19 monoclonal antibody (M01), clone 3C6 Western Blot analysis of RPS19 expression in K-562 ( Cat # L009V1 ).

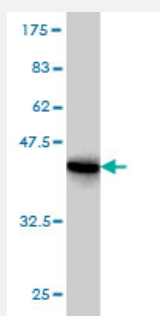


### Western Blot (Transfected lysate)

Western Blot analysis of RPS19 expression in transfected 293T cell line by RPS19 monoclonal antibody (M01), clone 3C6.

Lane 1: RPS19 transfected lysate(16.1 KDa).

Lane 2: Non-transfected lysate.



Western Blot detection against Immunogen (41.69 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a full length recombinant RPS19.

|                                      |                                                                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>                     | RPS19 (AAH00023, 1 a.a. ~ 145 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                     |
| <b>Sequence</b>                      | MPGVTVKDVNQQEFVRALAAFLKKSGKLKVPWVDTVKLAKHKELAPYDENWIFYTRAASTARH<br>LYLRGGAGVGSMTKIYGGQRNGVMPSHFSGSKSVARRVLQALEGLKMVEKDQDGGGRKLTPQ<br>GQRDLDRAGQVAAANKKH |
| <b>Host</b>                          | Mouse                                                                                                                                                   |
| <b>Reactivity</b>                    | Human                                                                                                                                                   |
| <b>Interspecies Antigen Sequence</b> | Mouse (99)                                                                                                                                              |
| <b>Isotype</b>                       | IgG2b Kappa                                                                                                                                             |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (41.69 KDa) .                                                |
| <b>Storage Buffer</b>                | In 1x PBS, pH 7.4                                                                                                                                       |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                |

## Applications

- Western Blot (Cell lysate)

RPS19 monoclonal antibody (M01), clone 3C6 Western Blot analysis of RPS19 expression in K-562 ( Cat # L009V1 ).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of RPS19 expression in transfected 293T cell line by RPS19 monoclonal antibody (M01), clone 3C6.

Lane 1: RPS19 transfected lysate(16.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## Gene Info — RPS19

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">6223</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GeneBank Accession# | <a href="#">BC000023</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protein Accession#  | <a href="#">AAH00023</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Name           | RPS19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Alias          | DBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Description    | ribosomal protein S19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Omim ID             | <a href="#">105650 603474</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Summary        | <p>Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40 S subunit. The protein belongs to the S19E family of ribosomal proteins. It is located in the cytoplasm. Mutations in this gene cause Diamond-Blackfan anemia (DBA), a constitutional erythroblastopenia characterized by absent or decreased erythroid precursors, in a subset of patients. This suggests a possible extra-ribosomal function for this gene in erythropoietic differentiation and proliferation, in addition to its ribosomal function. Higher expression levels of this gene in some primary colon carcinomas compared to matched normal colon tissues has been observed. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. [provided by RefSeq]</p> |
| Other Designations  | 40S ribosomal protein S19 Diamond-Blackfan anemia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Publication Reference

- [Enhanced alternative splicing of the FLVCR1 gene in Diamond Blackfan anemia disrupts FLVCR1 expression and function that are critical for erythropoiesis.](#)

Rey MA, Duffy SP, Brown JK, Kennedy JA, Dick JE, Dror Y, Tailor CS.

Haematologica 2008 Nov; 93(11):1617.

Application: WB, Human, K-562 cells

- [Dissecting the transcriptional phenotype of ribosomal protein deficiency: implications for Diamond-Blackfan Anemia.](#)

Aspesi A, Pavesi E, Robotti E, Crescitelli R, Boria I, Avondo F, Moniz H, Da Costa L, Mohandas N, Roncaglia P, Ramenghi U, Ronchi A, Gustincich S, Merlin S, Marengo E, Ellis SR, Follenzi A, Santoro C, Dianzani I.

Gene 2014 Jul; 545(2):282.

Application: WB-Tr, Human, TF1 cells

- [p53-Independent Cell Cycle and Erythroid Differentiation Defects in Murine Embryonic Stem Cells Haploinsufficient for Diamond Blackfan Anemia-Proteins: RPS19 versus RPL5.](#)

Singh SA, Goldberg TA, Henson AL, Husain-Krautter S, Nihrane A, Blanc L, Ellis SR, Lipton JM, Liu JM.

PLoS One 2014 Feb; 9(2):e89098.

Application: WB-Ce, Mouse, ES cells

- [Differential proteomic analysis in human cells subjected to ribosomal stress.](#)

Caterino M, Corbo C, Imperlini E, Armiraglio M, Pavesi E, Aspesi A, Loreni F, Dianzani I, Ruoppolo M.

Proteomics 2013 Apr; 13(7):1220.

Application: WB, Human, TF-1 cells

- [Impaired growth, hematopoietic colony formation, and ribosome maturation in human cells depleted of Shwachman-Diamond syndrome protein SBDS.](#)

Sezgin G, Henson AL, Nihrane A, Singh S, Wattenberg M, Alard P, Ellis SR, Liu JM.

Pediatric Blood & Cancer 2013 Feb; 60(2):281.

Application: WB-Tr, Human, TF-1 cells

## Pathway

- [Ribosome](#)

## Disease

- [Anemia](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)