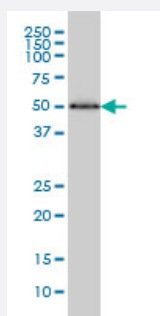


# HERPUD1 monoclonal antibody (M04), clone 2G7

Catalog # H00009709-M04

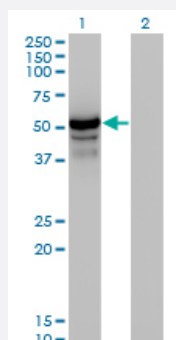
Size 100 ug

## Applications



### Western Blot (Cell lysate)

HERPUD1 monoclonal antibody (M04), clone 2G7 Western Blot analysis of HERPUD1 expression in HepG2 ( Cat # L019V1 ).

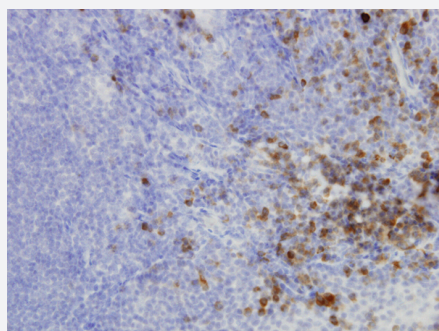


### Western Blot (Transfected lysate)

Western Blot analysis of HERPUD1 expression in transfected 293T cell line by HERPUD1 monoclonal antibody (M04), clone 2G7.

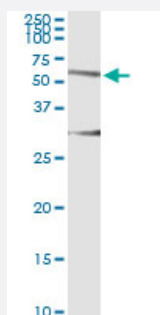
Lane 1: HERPUD1 transfected lysate(44 KDa).

Lane 2: Non-transfected lysate.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HERPUD1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]

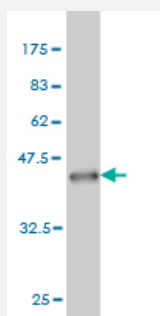
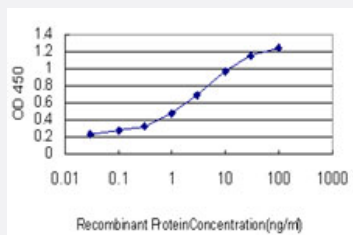


### Immunoprecipitation

Immunoprecipitation of HERPUD1 transfected lysate using anti-HERPUD1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with HERPUD1 MaxPab rabbit polyclonal antibody.

## Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HERPUD1 is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.51 KDa) .

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against a partial recombinant HERPUD1.
<b>Immunogen</b>	HERPUD1 (NP_055500, 74 a.a. ~ 180 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	PKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEELPAGSNRGQYPEDSSSDGLRQREVLRNLSSPGWENISRPEAAQQAFFQGLGPGFSGYTPYGWLQLSWFQQIYARQ
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (88); Rat (87)
<b>Isotype</b>	IgG2a Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.51 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)

HERPUD1 monoclonal antibody (M04), clone 2G7 Western Blot analysis of HERPUD1 expression in HepG2 ( Cat # L019V1 ).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of HERPUD1 expression in transfected 293T cell line by HERPUD1 monoclonal antibody (M04), clone 2G7.

Lane 1: HERPUD1 transfected lysate(44 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HERPUD1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of HERPUD1 transfected lysate using anti-HERPUD1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with HERPUD1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HERPUD1 is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — HERPUD1

Entrez GeneID

[9709](#)

GeneBank Accession#	<a href="#">NM_014685</a>
Protein Accession#	<a href="#">NP_055500</a>
Gene Name	HERPUD1
Gene Alias	HERP, KIAA0025, Mif1, SUP
Gene Description	homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
Omim ID	<a href="#">608070</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>The accumulation of unfolded proteins in the endoplasmic reticulum (ER) triggers the ER stress response. This response includes the inhibition of translation to prevent further accumulation of unfolded proteins, the increased expression of proteins involved in polypeptide folding, known as the unfolded protein response (UPR), and the destruction of misfolded proteins by the ER-associated protein degradation (ERAD) system. This gene may play a role in both UPR and ERAD. Its expression is induced by UPR and it has an ER stress response element in its promoter region while the encoded protein has an N-terminal ubiquitin-like domain which may interact with the ERAD system. This protein has been shown to interact with presenilin proteins and to increase the level of a myloid-beta protein following its overexpression. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq]</p>
Other Designations	MMS-inducible homocysteine-inducible endoplasmic reticulum stress-inducible ubiquitin-like domain member 1 protein methyl methanesulfonate (MMF)-inducible fragment protein 1

## Publication Reference

- [Radioprotective effects of genistein on HL-7702 cells via the inhibition of apoptosis and DNA damage.](#)

Song L, Ma L, Cong F, Shen X, Jing P, Ying X, Zhou H, Jiang J, Yan H.  
Cancer Letters 2015 Sep; 366(1):100.

Application: WB, Human, Embryo liver L-02 cells
- [BRSK2 is regulated by ER stress in protein level and involved in ER stress-induced apoptosis.](#)

Wang Y, Wan B, Li D, Zhou J, Li R, Bai M, Chen F, Yu L.  
Biochemical and Biophysical Research Communications 2012 Jul; 423(4):813.

Application: IF, Human, HeLa cells
- [Decreased ER-associated degradation of alpha-TCR induced by Grp78 depletion with the SubAB cytotoxin.](#)

Lass A, Kujawa M, McConnell E, Paton AW, Paton JC, Wojcik C.  
The International Journal of Biochemistry & Cell Biology 2008 Jun; 40(12):2865.

Application: WB-Ce, Human, COS-7, HeLa, HEK 293 cells

## Disease

- [Kidney Failure](#)