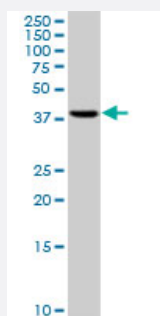


RRM2 monoclonal antibody (M01), clone 1E1

Catalog # H00006241-M01

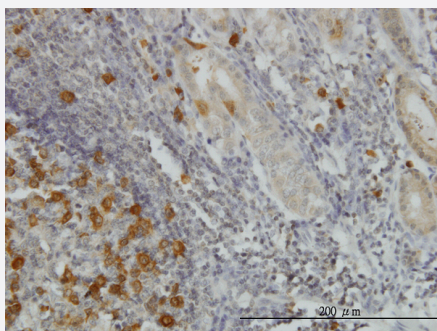
Size 100 ug

Applications



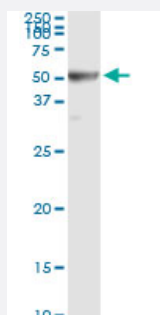
Western Blot (Cell lysate)

RRM2 monoclonal antibody (M01), clone 1E1. Western Blot analysis of RRM2 expression in HepG2 (Cat # L019V1).



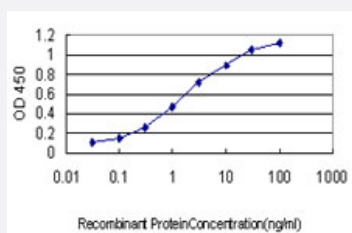
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to RRM2 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1.5 ug/ml]



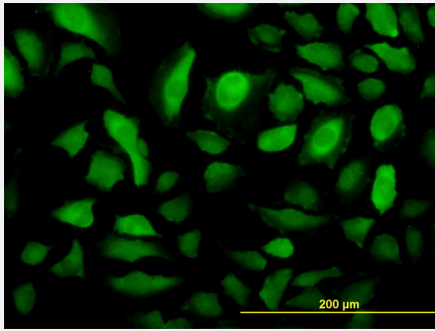
Immunoprecipitation

Immunoprecipitation of RRM2 transfected lysate using anti-RRM2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with RRM2 MaxPab rabbit polyclonal antibody.



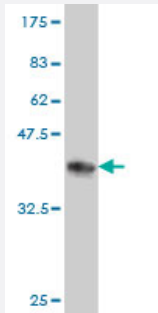
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RRM2 is approximately 0.03ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to RRM2 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant RRM2.
Immunogen	RRM2 (NP_001025, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MLSLRVPLAPITDPQQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTPKTKAAAPG VEDEPLLRENPRRFVIFPIEYHDWQMYKAEASFWTAEEVDLS
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

RRM2 monoclonal antibody (M01), clone 1E1. Western Blot analysis of RRM2 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to RRM2 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1.5 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of RRM2 transfected lysate using anti-RRM2 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with RRM2 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RRM2 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to RRM2 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — RRM2

Entrez GeneID

[6241](#)

GeneBank Accession#

[NM_001034](#)

Protein Accession#

[NP_001025](#)

Gene Name

RRM2

Gene Alias

R2, RR2M

Gene Description

ribonucleotide reductase M2 polypeptide

Omim ID [180390](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes one of two non-identical subunits for ribonucleotide reductase. This reductase catalyzes the formation of deoxyribonucleotides from ribonucleotides. Synthesis of the encoded protein (M2) is regulated in a cell-cycle dependent fashion. Transcription from this gene can initiate from alternative promoters, which results in two isoforms that differ in the lengths of their N-termini. Related pseudogenes have been identified on chromosomes 1 and X. [provided by RefSeq]

Other Designations ribonucleotide reductase M2 subunit

Publication Reference

- [APLP2, RRM2 and PRC1: new putative markers for the differential diagnosis of thyroid follicular lesions.](#)

Castelblanco E, Zafón C, Maravall J, Gallel P, Martinez M, Capel I, Bella-Cueto MR, Halperin I, Temprana-Salvador J, Iglesias C, Puig-Domingo M, Robledo M, Matias-Guiu X, Mauricio D.

Thyroid : Official Journal of the American Thyroid Association 2017 Jan; 27(1):59.

Application: IHC-P, Human, Human follicular carcinoma, Human follicular adenoma, Human nodular hyperplasia
- [RRM1 maintains centrosomal integrity via CHK1 and CDK1 signaling during replication stress.](#)

Kim SH, Park ER, Joo HY, Shen YN, Hong SH, Kim CH, Singh R, Lee KH, Shin HJ.

Cancer Letters 2014 May; 346(2):249.

Application: WB-Tr, Human, HeLa cells
- [KRAS-mediated Up-regulation of RRM2 Expression Is Essential for the Proliferation of Colorectal Cancer Cell Lines.](#)

Yoshida Y, Tsunoda T, Doi K, Tanaka Y, Fujimoto T, Machida T, Ota T, Koyanagi M, Takashima Y, Sasazuki T, Kuroki M, Iwasaki A, Shirasawa S.

Anticancer Research 2011 Jul; 31(7):2535.

Application: WB-Ce, WB-Tr, Human, HCT116, HKe3 cells
- [Epstein-Barr virus episome stability is coupled to a delay in replication timing.](#)

Zhou J, Snyder A, Lieberman PM.

Journal of Virology 2008 Dec; 83(5):2154.

Application: WB-Tr, EBV+ adherent cells, D98/HR1 cells

- [Quantitative phosphoproteome profiling of Wnt3a mediated signaling network: indicating the involvement of ribonucleoside-diphosphate reductase M2 subunit phosphorylation at residue serine-20 in canonical Wnt signal transduction.](#)

Tang LY, Deng N, Wang LS, Dai J, Wang ZL, Jiang XS, Li SJ, Li L, Sheng QH, Wu DQ, Li L, Zeng R.

Molecular & Cellular Proteomics 2007 Aug; 6(11):1952.

Application: WB, Human, HEK 293 cells

Pathway

- [Glutathione metabolism](#)
- [Metabolic pathways](#)
- [p53 signaling pathway](#)
- [Purine metabolism](#)
- [Pyrimidine metabolism](#)

Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Pancreatic Neoplasms](#)