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HERPUD1 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant HERPUD1.
Catalog # AT2354a

Product Information

Application	WB, IHC, IP, E
Primary Accession	Q15011
Other Accession	NM_014685
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2G7
Calculated MW	43720

Additional Information

Gene ID	9709
Other Names	Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein, Methyl methanesulfonate (MMF)-inducible fragment protein 1, HERPUD1, HERP, KIAA0025, MIF1
Target/Specificity	HERPUD1 (NP_055500, 74 a.a. ~ 180 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HERPUD1 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

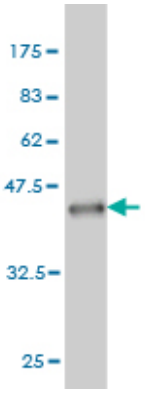
The accumulation of unfolded proteins in the endoplasmic reticulum (ER) triggers the ER stress response. This response includes the inhibition of translation to prevent further accumulation of unfolded proteins, the increased expression of proteins involved in polypeptide folding, known as the unfolded 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 amyloid-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.

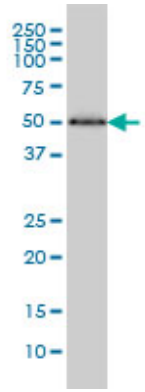
References

1.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.Biochem Biophys Res Commun. 2012 Jun 16.2.Decreased ER-associated degradation of ?-TCR induced by Grp78 depletion with the SubAB cytotoxin.Lass A, Kujawa M, McConnell E, Paton AW, Paton JC, Wojcik C.Int J Biochem Cell Biol. 2008;40(12):2865-79. Epub 2008 Jun 20.

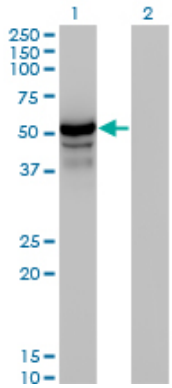
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.51 KDa) .



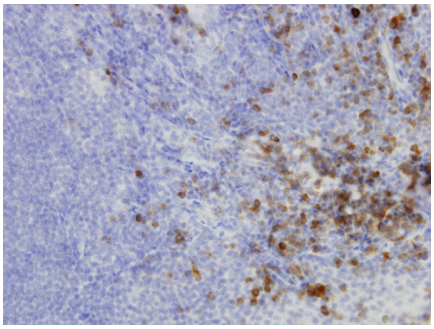
HERPUD1 monoclonal antibody (M04), clone 2G7 Western Blot analysis of HERPUD1 expression in HepG2 ((Cat # AT2354a)

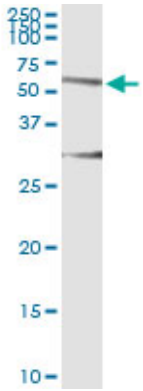


Western Blot analysis of HERPUD1 expression in transfected 293T cell line by HERPUD1 monoclonal antibody (M04), clone 2G7.

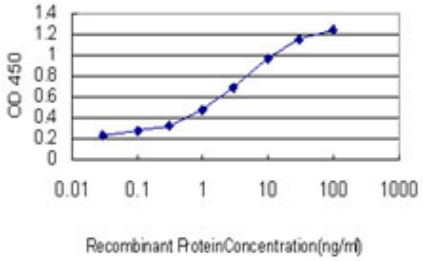
Lane 1: HERPUD1 transfected lysate(44 KDa).
Lane 2: Non-transfected lysate.

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





Immunoprecipitation of HERPUD1 transfected lysate using anti-HERPUD1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with HERPUD1 MaxPab rabbit polyclonal antibody.



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