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HERPUD1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant HERPUD1.
Catalog # AT2353a

Product Information

Application	WB, E
Primary Accession	Q15011
Other Accession	BC000086
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3E11
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 (AAH00086, 1 a.a. ~ 391 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

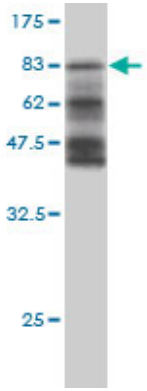
The accumulation of unfolded proteins in the endoplasmic reticulum (ER) triggers the ER stress response. This response includes the inhibition of translation to prevent further accumulation of unfolded proteins, the increased expression of proteins involved in polypeptide folding, known as the unfolded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

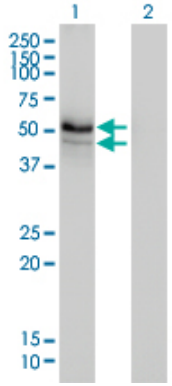
References

The endoplasmic reticulum stress-inducible protein, Herp, is a potential triggering antigen for anti-DNA response. Hirabayashi Y, et al. J Immunol, 2010 Mar 15. PMID 20147634.Inhibition of secretion of interleukin (IL)-12/IL-23 family cytokines by 4-trifluoromethyl-celecoxib is coupled to degradation via the endoplasmic reticulum stress protein HERP. McLaughlin M, et al. J Biol Chem, 2010 Mar 5. PMID 20054003.Polymorphism in the CETP gene region, HDL cholesterol, and risk of future myocardial infarction: Genomewide analysis among 18 245 initially healthy women from the Women's Genome Health Study. Ridker PM, et al. Circ Cardiovasc Genet, 2009 Feb. PMID 20031564.Genome-wide association analysis of high-density lipoprotein cholesterol in the population-based KORA study sheds new light on intergenic regions. Heid IM, et al. Circ Cardiovasc Genet, 2008 Oct. PMID 20031538.Homocysteine-induced endoplasmic reticulum protein (herp) is up-regulated in parkinsonian substantia nigra and present in the core of Lewy bodies. Slodzinski H, et al. Clin Neuropathol, 2009 Sep-Oct. PMID 19788048.

Images

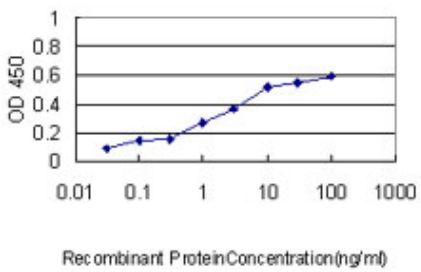


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (68.75 KDa) .



Western Blot analysis of HERPUD1 expression in transfected 293T cell line by HERPUD1 monoclonal antibody (M01), clone 3E10.

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



Detection limit for recombinant GST tagged HERPUD1 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.