

C20orf31 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant C20orf31.

Catalog # AT1342a

Product Information

Application	WB, IHC, IP, E
Primary Accession	Q9BV94
Other Accession	NM_018217
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2E5
Calculated MW	64753

Additional Information

Gene ID	55741
Other Names	ER degradation-enhancing alpha-mannosidase-like protein 2, EDEM2, C20orf31, C20orf49
Target/Specificity	C20orf31 (NP_060687, 479 a.a. ~ 578 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	C20orf31 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

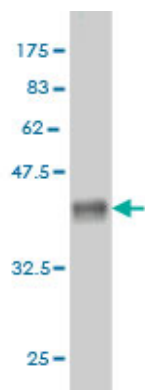
In the endoplasmic reticulum (ER), misfolded proteins are retrotranslocated to the cytosol and degraded by the proteasome in a process known as ER-associated degradation (ERAD). EDEM2 belongs to a family of proteins involved in ERAD of glycoproteins (Mast et al., 2005 [PubMed 15537790]).

References

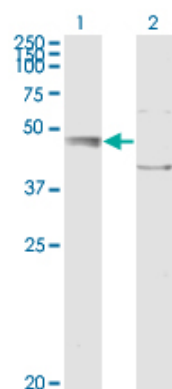
Genome-wide association study identifies novel loci for plasma levels of protein C: the ARIC study. Tang W, et al. Blood, 2010 Aug 27. PMID 20802025.A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.A novel stress-induced EDEM

variant regulating endoplasmic reticulum-associated glycoprotein degradation. Olivari S, et al. J Biol Chem, 2005 Jan 28. PMID 15579471. Human EDEM2, a novel homolog of family 47 glycosidases, is involved in ER-associated degradation of glycoproteins. Mast SW, et al. Glycobiology, 2005 Apr. PMID 15537790. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Images

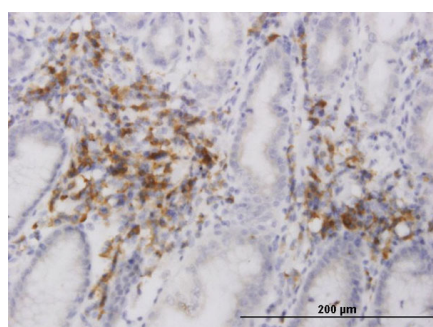


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .

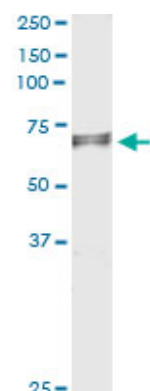


Western Blot analysis of EDEM2 expression in transfected 293T cell line by C20orf31 monoclonal antibody (M01), clone 2E4.

Lane 1: EDEM2 transfected lysate (64.8 kDa).
Lane 2: Non-transfected lysate.

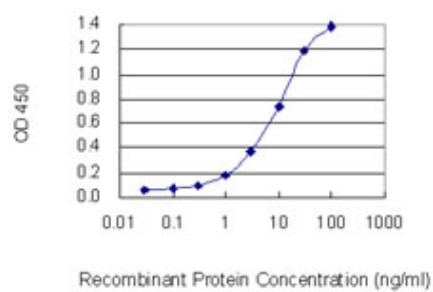


Immunoperoxidase of monoclonal antibody to C20orf31 on formalin-fixed paraffin-embedded human stomach. [antibody concentration 1.5 ug/ml]



Immunoprecipitation of EDEM2 transfected lysate using anti-EDEM2 monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with EDEM2 MaxPab rabbit polyclonal antibody.

Detection limit for recombinant GST tagged EDEM2 is 0.1



ng/ml as a capture antibody.

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