EDEM3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EDEM3, Polyclonal Antibody
Full Product Name	EDEM3, CT (EDEM3, C1orf22, ER degradation-enhancing alpha-mannosidase-like 3) (MaxLight 405)
Product Gene Name	anti-EDEM3 antibody
Product Synonym Names	EDEM3; C1orf22; ER degradation-enhancing alpha-mannosidase-like 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	104,664 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (184659625..184724041, complement). Location: 1q25
OMIM	610214
3D Structure	ModBase 3D Structure for Q9BZQ6
Immunogen	EDEM3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 773-802 amino acids from the C-terminal region of human EDEM3.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-EDEM3 antibody	Antibodies; Enzymes; Glycosidase
Applications Tested/Suitable for anti-EDEM3 antibody	Western Blot (WB), FLISA
Application Notes for anti-EDEM3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EDEM3 antibody	Quality control in the endoplasmic reticulum (ER) ensures that only properly folded proteins are retained in the cell through recognition and degradation of misfolded or unassembled proteins. EDEM3 belongs to a group of proteins that accelerate degradation of misfolded glycoproteins in the ER (Hirao et al., 2006 [PubMed 16431915]).
Product References and Citations for anti-EDEM3 antibody	Hirao, K., et al. J. Biol. Chem. 281(14):9650-9658(2006). Mast, S.W., et al. Glycobiology 15(4):421-436(2005). Olivari, S., et al. J. Biol. Chem. 280(4):2424-2428(2005). Sood, R., et al. Genomics 73(2):211-222(2001).
Other Notes	Small volumes of anti-EDEM3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for EDEM3 purchase	MBS6294340 is an antibody targeting EDEM3. Also known as EDEM3, CT (EDEM3, C1orf22, ER degradation-enhancing alpha-mannosidase-like 3) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDEM3. It may not necessarily be applicable to this product.

NCBI GI #	163310725
NCBI GeneID	80267
NCBI Accession #	NP_079467.3
UniProt Primary Accession #	Q9BZQ6
UniProt Secondary Accession #	Q0VGM5; Q5TEZ0; Q9HCW1; Q9UFV7; B2RCH6
UniProt Related Accession #	Q9BZQ6
GenBank Nucleotide #	NM_025191.3
NCBI Official Full Name	ER degradation-enhancing alpha-mannosidase-like protein 3
NCBI Official Synonym Full Names	ER degradation enhancer, mannosidase alpha-like 3
NCBI Official Symbol	EDEM3
NCBI Official Synonym Symbols	C1orf22
UniProt Protein Name	ER degradation-enhancing alpha-mannosidase-like protein 3
UniProt Synonym Protein Names	Alpha-1,2-mannosidase EDEM3
Protein Family	ER degradation-enhancing alpha-mannosidase-like protein
UniProt Gene Name	EDEM3
UniProt Synonym Gene Names	C1orf22
UniProt Entry Name	EDEM3_HUMAN
NCBI Protein Information	ER degradation-enhancing alpha-mannosidase-like protein 3; alpha-1,2-mannosidase EDEM3; ER degradation-enhancing alpha-mannosidase-like 3; ER degradation-enhancing -mannosidase-like protein 3
UniProt Comments for EDEM3	Function: Involved in endoplasmic reticulum-associated degradation (ERAD). Accelerates the glycoprotein ERAD by proteasomes. This process depends on mannose-trimming from the N-glycans. Seems to have alpha 1,2-mannosidase activity By similarity. Catalytic activity: Hydrolysis of the terminal (1->2)-linked alpha-D-mannose residues in the oligo-mannose oligosaccharide Man9(GlcNAc)2. Subcellular location: Endoplasmic reticulum lumen By similarity. Domain: Contains a protease-associated domain (PA) of unknown function. Sequence similarities: Belongs to the glycosyl hydrolase 47 family.Contains 1 PA (protease associated) domain. Sequence caution: The sequence AAG60613.1 differs from that shown. Reason: Erroneous initiation. The sequence BAG37573.1 differs from that shown. Reason: Erroneous initiation.

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