EDEM2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EDEM2, Polyclonal Antibody
Full Product Name	EDEM2 Antibody, Biotin conjugated
Product Gene Name	anti-EDEM2 antibody
Product Synonym Names	ER degradation-enhancing alpha-mannosidase-like protein 2; EDEM2; C20orf31; C20orf49; UNQ573/PRO1135
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: EDEM2 (MBS1496915) Biotin Conjugated Antibody: EDEM2 (MBS1495723)
Molecular Weight	60,319 Da
OMIM	610302
3D Structure	ModBase 3D Structure for Q9BV94
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Biotin
Immunogen	Recombinant human ER degradation-enhancing alpha-mannosidase-like protein 2 protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-87706 / sc-87707
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EDEM2 antibody	ELISA (EIA)
Related Product Information for anti-EDEM2 antibody	Initiates the endoplasmic reticulum-associated degradation (ERAD) that targets misfolded glycoproteins for degradation in an N-glycan-dependent manner. Catalyzes the first mannose trimming step, from Man9GlcNAc2 to Man8GlcNAc2 (PubMed:25092655). Extracts misfolded glycoproteins, but not glycoproteins undergoing productive folding, from the calnexin cycle.
Other Notes	Small volumes of anti-EDEM2 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 EDEM2 purchase	MBS1495723 is an antibody targeting EDEM2. Also known as EDEM2 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDEM2. It may not necessarily be applicable to this product.

NCBI GI #	222537739

NCBI GeneID	55741
NCBI Accession #	NP_001138497.1
UniProt Primary Accession #	Q9BV94
UniProt Secondary Accession #	Q6GU33; Q6IA89; Q6UWZ4; Q9H4U0; Q9H886; Q9NTL9; Q9NVE6; B4DTG9
UniProt Related Accession #	Q9BV94
GenBank Nucleotide #	NM_001145025.1
NCBI Official Full Name	ER degradation-enhancing alpha-mannosidase-like protein 2 isoform 2
NCBI Official Synonym Full Names	ER degradation enhancer, mannosidase alpha-like 2
NCBI Official Symbol	EDEM2
NCBI Official Synonym Symbols	C20orf31; C20orf49; bA4204.1
UniProt Protein Name	ER degradation-enhancing alpha-mannosidase-like protein 2
Protein Family	ER degradation-enhancing alpha-mannosidase-like protein
UniProt Gene Name	EDEM2
UniProt Synonym Gene Names	C20orf31; C20orf49
UniProt Entry Name	EDEM2_HUMAN
NCBI Protein Information	ER degradation-enhancing alpha-mannosidase-like protein 2
NCBI Summary for EDEM2	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]).[supplied by OMIM, Mar 2008]
UniProt Comments for EDEM2	EDEM2: Involved in endoplasmic reticulum-associated degradation (ERAD) that targets misfolded glycoproteins for degradation in an N-glycan-dependent manner. It lacks mannosidase activity. Extracts misfolded glycoproteins, but not glycoproteins undergoing productive folding, from the calnexin cycle. Belongs to the glycosyl hydrolase 47 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 20q11.22 Cellular Component: endoplasmic reticulum; endoplasmic reticulum lumen; membrane Molecular Function: calcium ion binding; glycoprotein binding; mannosyl-oligosaccharide 1,2-alpha-mannosidase activity Biological Process: cellular protein metabolic process; ER-associated protein catabolic process; N-glycan processing; post-translational protein modification; protein amino acid N-linked glycosylation via asparagine; protein folding; unfolded protein response
Research Articles on EDEM2	**1.** EDEM2 and OS-9 are required for ER-associated degradation of non-glycosylated sonic hedgehog
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