ESM1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ESM1, Monoclonal Antibody
Full Product Name	ESM1 (Endothelial Cell-specific Molecule 1, ESM-1) (MaxLight 405)
Product Gene Name	anti-ESM1 antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	6D4
Host	Mouse
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.
Specificity	Recognizes human ESM1.
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 amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recov of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	20.5 kDa (188aa)
OMIM	601521
3D Structure	ModBase 3D Structure for Q9NQ30
Immunogen	Partial recombinant corresponding to aa85-185 from human ESM1 (NP_008967) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PSNGEDPFGEEFGICKDCPYGTFGMDCRETCNCQSGICDRGTGKCLKFPFFQYSVTKSSNRFVSLTEHDMASGDGNIVREEVVKENAAGSPVMRKWLN
Conjugate	MaxLight405
Product Categories/Family for anti-ESM1 antibody	Antibodies; Cell Markers
Applications Tested/Suitable for anti-ESM1 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-ESM1 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-ESM1 antibody	MBS6190036 is an antibody targeting ESM1. Also known as ESM1 (Endothelial Cell-specific Molecule 1, ESM-1) (MaxLight 405). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-ESM1 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 and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ESM1. It may not necessarily be applicable to this product.

NCBI GI #	5901946
NCBI GeneID	11082
NCBI Accession #	NP_008967
UniProt Primary Accession #	Q9NQ30
UniProt Secondary Accession #	Q15330; Q3V4E3; Q96ES3; B2R4G3
UniProt Related Accession #	Q9NQ30
GenBank Nucleotide #	NM_007036
NCBI Official Full Name	endothelial cell-specific molecule 1 isoform a
NCBI Official Synonym Full Names	endothelial cell specific molecule 1
NCBI Official Symbol	ESM1
NCBI Official Synonym Symbols	endocan
UniProt Protein Name	Endothelial cell-specific molecule 1
Protein Family	Endothelial cell-specific molecule
UniProt Gene Name	ESM1
UniProt Synonym Gene Names	ESM-1
UniProt Entry Name	ESM1_HUMAN
NCBI Protein Information	endothelial cell-specific molecule 1
NCBI Summary for ESM1	This gene encodes a secreted protein which is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of this gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. The transcript contains multiple polyadenylation and mRNA instability signals. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]
UniProt Comments for ESM1	ESM1: May have potent implications in lung endothelial cell- leukocyte interactions. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 5q11.2 Cellular Component: extracellular region Molecular Function: integrin binding; insulin-like growth factor binding; hepatocyte growth factor receptor binding Biological Process: positive regulation of cell proliferation; regulation of cell growth; angiogenesis; sprouting angiogenesis
Research Articles on ESM1	**1.** The results suggest that endocan may have a role in the pathogenesis of pterygium.
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