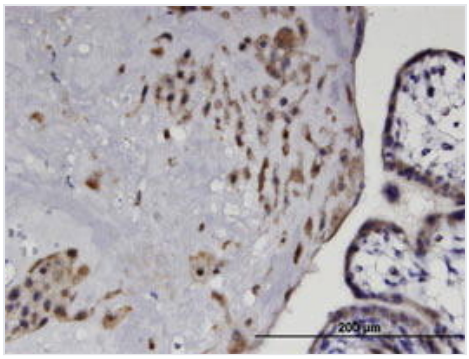
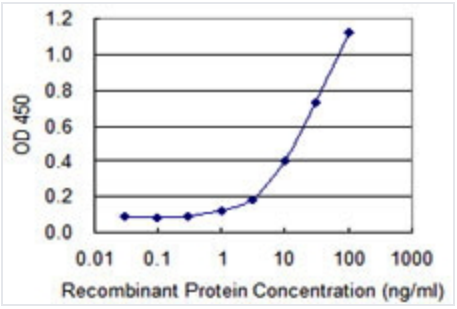
EDG3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	EDG3, Monoclonal Antibody
Full Product Name	EDG3 (Sphingosine 1-phosphate Receptor 3, S1P Receptor 3, S1P3, Endothelial Differentiation G-protein Coupled Receptor 3, Sphingosine 1-phosphate Receptor Edg-3, S1P Receptor Edg-3, S1PR3) (Biotin)
Product Gene Name	anti-EDG3 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2G11
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human EDG3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	42,250 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (91606324..91620070). Location: 9q22.1-q22.2
OMIM	601965
3D Structure	ModBase 3D Structure for Q99500
Immunogen	Partial recombinant corresponding to aa302-378 from human EDG3 (NP_005217.2) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SKEMRRAFFRLVCNCLVRGRGARASPIQPALDPSRSKSSSSNNSSHSPKVKEDLPHTAPSSCIMDKNAALQNGIFCN
Conjugate	Biotin
Product Categories/Family for anti-EDG3 antibody	Antibodies; G Protein Receptors
Applications Tested/Suitable for anti-EDG3 antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-EDG3 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-EDG3 antibody	MBS6141663 is an antibody targeting EDG3. Also known as EDG3 (Sphingosine 1-phosphate Receptor 3, S1P Receptor 3, S1P3, Endothelial Differentiation G-protein Coupled Receptor 3, Sphingosine 1-phosphate Receptor Edg-3, S1P Receptor Edg-3, S1PR3) (Biotin). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-EDG3 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.



Testing Data of anti-EDG3 antibody
Immunoperoxidase of monoclonal antibody to S1PR3 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3ug/ml].



Testing Data of anti-EDG3 antibody
Detection limit for recombinant GST tagged S1PR3 is 0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDG3. It may not necessarily be applicable to this product.

NCBI GI #	38788193
NCBI GeneID	1903
NCBI Accession #	NP_005217.2
UniProt Primary Accession #	Q99500
UniProt Secondary Accession #	Q5SQD8; Q7Z5I2
UniProt Related Accession #	Q99500
GenBank Nucleotide #	NM_005226
NCBI Official Full Name	sphingosine 1-phosphate receptor 3
NCBI Official Synonym Full Names	sphingosine-1-phosphate receptor 3
NCBI Official Symbol	S1PR3
NCBI Official Synonym Symbols	EDG3; LPB3; S1P3; EDG-3
UniProt Protein Name	Sphingosine 1-phosphate receptor 3
UniProt Synonym Protein Names	Endothelial differentiation G-protein coupled receptor 3; Sphingosine 1-phosphate receptor Edg-3
UniProt Gene Name	S1PR3
UniProt Synonym Gene Names	EDG3; S1P receptor 3; S1P3
UniProt Entry Name	S1PR3_HUMAN
NCBI Protein Information	sphingosine 1-phosphate receptor 3; S1P receptor 3; S1P receptor EDG3; S1P receptor Edg-3; sphingosine 1-phosphate receptor Edg-3; endothelial differentiation G-protein coupled receptor 3; G protein-coupled receptor, endothelial differentiation gene-3; en
NCBI Summary for EDG3	This gene encodes a member of the EDG family of receptors, which are G protein-coupled receptors. This protein has been identified as a functional receptor for sphingosine 1-phosphate and likely contributes to the regulation of angiogenesis and vascular endothelial cell function. [provided by RefSeq, Jul 2008]

UniProt Comments for EDG3	S1PR3: Receptor for the lysosphingolipid sphingosine 1- phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. When expressed in rat HTC4 hepatoma cells, is capable of mediating S1P-induced cell proliferation and suppression of apoptosis. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 1 Chromosomal Location of Human Ortholog: 9q22.1-q22.2 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; integrin binding; lipid binding Biological Process: G-protein coupled receptor protein signaling pathway; anatomical structure morphogenesis; elevation of cytosolic calcium ion concentration; regulation of interleukin-1 beta production; positive regulation of cell proliferation; cytokine production; G-protein signaling, adenylate cyclase inhibiting pathway; inflammatory response
Research Articles on EDG3	**1.** S1P3 receptors are detected in virtually all neurons in dorsal root ganglion and mediate pain behavior.
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