# EDG3 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **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) (MaxLight 405) |
| **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 MaxLight405. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human EDG3. |
| **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** | 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** | MaxLight405 |
| **Product Categories/Family for anti-EDG3 antibody** | Antibodies; G Protein Receptors |
| **Applications Tested/Suitable for anti-EDG3 antibody** | FLISA, Immunohistochemistry (IHC) Paraffin |
| **Application Notes for anti-EDG3 antibody** | IHC-P: 3ug/ml<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-EDG3 antibody** | MBS6189920 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) (MaxLight 405). 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. |

## ADDITIONAL DETAILS

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

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| **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.<br><br>Protein type: Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR; GPCR, family 1<br><br>Chromosomal Location of Human Ortholog: 9q22.1-q22.2<br><br>Cellular Component: integral to plasma membrane; plasma membrane<br><br>Molecular Function: G-protein coupled receptor activity; integrin binding; lipid binding<br><br>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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