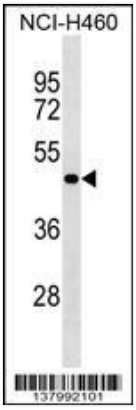
SGPP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SGPP2, Polyclonal Antibody
Full Product Name	SGPP2, NT (SGPP2, Sphingosine-1-phosphate phosphatase 2, Sphingosine-1-phosphatase 2) (FITC)
Product Gene Name	anti-SGPP2 antibody
Product Synonym Names	SGPP2; Sphingosine-1-phosphate phosphatase 2; Sphingosine-1-phosphatase 2
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
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. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	44,741 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (223289322..223423617). Location: 2q36.1
OMIM	612827
3D Structure	ModBase 3D Structure for Q8IWX5
Immunogen	SGPP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-33 amino acids from the N-terminal region of human SGPP2.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SGPP2 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-SGPP2 antibody	Western Blot (WB), FLISA
Application Notes for anti-SGPP2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SGPP2 antibody	Sphingosine-1-phosphate (S1P) is a bioactive sphingolipid metabolite that regulates diverse biologic processes. SGPP2 catalyzes the degradation of S1P (Ogawa et al., 2003 [PubMed 12411432]).
Product References and Citations for anti-SGPP2 antibody	Mechtcheriakova, D., et al. Cell. Signal. 19(4):748-760(2007). Ogawa, C., et al. J. Biol. Chem. 278(2):1268-1272(2003).

Other Notes	Small volumes of anti-SGPP2 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 SGPP2 purchase	MBS6347079 is an antibody targeting SGPP2. Also known as SGPP2, NT (SGPP2, Sphingosine-1-phosphate phosphatase 2, Sphingosine-1-phosphatase 2) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SGPP2 antibody
SGPP2 Antibody (N-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the SGPP2 antibody detected the SGPP2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGPP2. It may not necessarily be applicable to this product.

NCBI GI #	23510289
NCBI GeneID	130367
NCBI Accession #	NP_689599.2
UniProt Primary Accession #	Q8IWX5
UniProt Secondary Accession #	Q8N8Q6; A3KPB4
UniProt Related Accession #	Q8IWX5
GenBank Nucleotide #	NM_152386.2
NCBI Official Full Name	sphingosine-1-phosphate phosphatase 2
NCBI Official Synonym Full Names	sphingosine-1-phosphate phosphatase 2
NCBI Official Symbol	SGPP2
NCBI Official Synonym Symbols	SPP2
UniProt Protein Name	Sphingosine-1-phosphate phosphatase 2
UniProt Synonym Protein Names	Sphingosine-1-phosphatase 2
Protein Family	Sphingosine-1-phosphate phosphatase
UniProt Gene Name	SGPP2
UniProt Synonym Gene Names	SPPase2; Spp2; hSPP2
UniProt Entry Name	SGPP2_HUMAN
NCBI Protein Information	sphingosine-1-phosphate phosphatase 2; hSPP2; SPPase2; sphingosine-1-phosphatase 2; sphingosine-1-phosphate phosphotase 2; sphingosine 1-phosphate phosphohydrolase 2

UniProt Comments for SGPP2	Function: Has specific phosphohydrolase activity towards sphingoid base 1-phosphates. Has high phosphohydrolase activity against dihydrosphingosine-1-phosphate and sphingosine-1-phosphate (S1P) in vitro. May play a role in attenuating intracellular sphingosine 1-phosphate (S1P) signaling. May play a role in pro-inflammatory signaling. Ref.1 Ref.4 Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein Ref.1. Tissue specificity: Expressed strongly in kidney and heart, followed by brain, colon, small intestine and lung. Not detected in skeletal muscle, thymus, spleen, liver, placenta, and peripheral blood leukocytes. Ref.1 Induction: Strongly induced by TNF, also induced by bacterial lipopolycaccharides (LPS) in neutrophils, endothelial cells, and other cell types. Not induced by growth-related factors. Ref.4 Sequence similarities: Belongs to the type 2 lipid phosphate phosphatase family.
Research Articles on SGPP2	**1.** characterization of SPP2, another member of the SPP family that may play a role in attenuating intracellular S1P signaling.
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