Recombinant Human S1PR1 protein

Cat. No. S1PR1-28462TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human S1PR1(1 a.a. - 288 a.a.) was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-288 a.a.
Description	The protein encoded by this gene is structurally similar to G protein-coupled receptors and is highly expressed in endothelial cells. It binds the ligand sphingosine-1-phosphate with high affinity and high specificity, and suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion.
Form	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	42.8 kDa
AA Sequence	MGPTSVPLVKAHRSSVSDYVNYDIIVRHYNYTGKLNISADKENSIKLTSVVFILICCFIIL ENIFVLLTIWKTKK FHRPMYYFIGNLALSDLLAGVAYTANLLLSGATTYKLTPAQWFL REGSMFVALSASVFSLLAIAIERYITMLKMK LHNGSNNFRLFLLISACWVISLILGGLPI MGWNCISALSSCSTVLPLYHKHYILFCTTVFTLLLLSIVILYCRIY SLVRTRSRRLTFRK NISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDVGCKVKTCDILFRAEYFLVLA VLNSGTNPIIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIAGMEFSRSKSDNS SHPQKDEGDNPETIMSS GNVNSSS

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Antibody Production; Functional Study; Compound Screening
Notes	Best use within three months from the date of receipt of this protein. Heating may cause protein aggregation. Please do not heat this product before electrophoresis.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	S1PR1 sphingosine-1-phosphate receptor 1 [Homo sapiens]
Official Symbol	S1PR1
Synonyms	S1PR1; sphingosine-1-phosphate receptor 1; EDG1, endothelial differentiation, sphingolipid G protein coupled receptor, 1; sphingosine 1-phosphate receptor 1; CD363; D1S3362; edg 1; S1P receptor 1; S1P receptor Edg-1; sphingosine 1-phosphate receptor EDG1; sphingosine 1-phosphate receptor Edg-1; endothelial differentiation G-protein coupled receptor 1; endothelial differentiation, sphingolipid G-protein-coupled receptor, 1; EDG1; S1P1; ECGF1; EDG-1; CHEDG1; FLJ58121;
Gene ID	1901
mRNA Refseq	NM_001400
Protein Refseq	NP_001391
MIM	601974
UniProt ID	P21453
Chromosome	1p21

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Location	
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Other, organism-specific biosystem; Lysosphingolipid and LPA receptors, organism-specific biosystem;
Function	G-protein coupled receptor activity; receptor activity; signal transducer activity; sphingolipid binding; sphingosine-1-phosphate receptor activity;

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