

Recombinant Human LPAR1 protein, GST-tagged

Cat. No. LPAR1-490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LPAR1(1 a.a. - 364 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-364 a.a.
Description	The integral membrane protein encoded by this gene is a lysophosphatidic acid (LPA) receptor from a group known as EDG receptors. These receptors are members of the G protein-coupled receptor superfamily. Utilized by LPA for cell signaling, EDG receptors mediate diverse biologic functions, including proliferation, platelet aggregation, smooth muscle contraction, inhibition of neuroblastoma cell differentiation, chemotaxis, and tumor cell invasion. Two transcript variants encoding the same protein have been identified for this gene
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	67.5 kDa
AA Sequence	MAAISTSIPVISQPQFTAMNEPQCFYNESIAFFYNRSGKHLATEWNTVSKLVMGLGIT VCIFIMLANLLVMVAIY VNRRFHFPIIYLMANLAAADFFAGLAYFYLMFNTGPNTRRL TVSTWLLRQGLIDTSLTASVANLLAIAIERHITV FRMQLHTRMSNRRVVVVIVWITM AIVMGAIPSVGWNCICDIENCSNMAPLYSDSYLVFWAIFNLVTFVVMVLY AHIFGYV

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RQRTMRMSRHSSGPRRNRDTMMSLLKTVVIVLGAFIICWTPGLVLLLLDVCCPQCD
 VLAYEKFFLLLA EFNSAMNPIIYSYRDKEMSATFRQILCCQRSENPTGPTEGSDRSA
 SSLNHTILAGVHSNDHSVV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

[LPAR1 lysophosphatidic acid receptor 1 \[Homo sapiens \]](#)

Official Symbol

[LPAR1](#)

Synonyms

LPAR1; lysophosphatidic acid receptor 1; EDG2, endothelial differentiation,
 lysophosphatidic acid G protein coupled receptor, 2; edg 2; Gpcr26; GPR26; LPA1;
 Mrec1.3; rec.1.3; vzg 1; LPA-1; LPA receptor 1; ventricular zone gene 1;
 lysophosphatidic acid receptor Edg-2; endothelial differentiation, lysophosphatidic
 acid G-protein-coupled receptor, 2; EDG2; VZG1; edg-2; vzg-1;

Gene ID

[1902](#)

mRNA Refseq

[NM_001401](#)

Protein Refseq

[NP_001392](#)

MIM

[602282](#)

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UniProt ID	Q92633
Chromosome Location	9q
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved biosystem;
Function	G-protein alpha-subunit binding; G-protein coupled receptor activity; PDZ domain binding; lysophosphatidic acid receptor activity; phospholipid binding; protein binding; receptor activity; signal transducer activity;

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