Datasheet for ABIN317746

anti-S1PR2 antibody

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Overview

Quantity:	0.1 mg
Target:	S1PR2
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This S1PR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Specificity:	This antibody detects endogenous levels of EDG-5 protein.(region surrounding Leu300)
Cross-Reactivity (Details):	Species reactivity (expected):Rat and Mouse. Species reactivity (tested):Human.
Purification:	Affinity Chromatography using epitope-specific immunogen.

Target Details

Target:	S1PR2
Alternative Name:	EDG-5 / S1P2 (S1PR2 Products)
Background:	The EDG (endothelial differentiation gene) family of G protein coupled receptors consists of eight family members that bind lysophospholipid (LPL) mediators, including sphingosine-1-phosphate (SPP) and lysophosphatidic acid (LPA). EDG-1, EDG-3, EDG-5 (also designated H218 and AGR16) and EDG-8 bind SPP with high-affinity. EDG-6 is a low-affinity receptor for SPP. LPA

Target Details

	preferentially binds to EDG-2, EDG-4 and EDG-7. The EDG receptors couple to multiple G proteins to signal through Ras, MAP kinase, Rho, Phospholipase C or other tyrosine kinases, which lead to cell survival, growth, migration and differentiation. EDG-1 signals through Gi proteins to activate Akt and is expressed in glioma cells. EDG-2 is expressed in brain, especially in white matter tract regions, while EDG-3 is expressed in cardiovascular tissue and in cerebellum. EDG-4 is highly expressed on leukocytes and brain, and EDG-5 has wide tissue distribution, including cardiovascular tissue and brain. Expressed in lymphoid and hematopoietic tissues and in lung, EDG-6 signals through Gi/o proteins, which activate growth related pathways.Synonyms: AGR16, EDG5, Endothelial differentiation G-protein coupled receptor 5, Gpcr13, H218, LPB2, S1P receptor 2, S1PR2, Sphingosine 1-phosphate receptor 2
Molecular Weight:	approx. 39 kDa
Gene ID:	9294
NCBI Accession:	NP_004221
UniProt:	O95136
Pathways:	Synaptic Membrane

Application Details

Application Notes:	ELISA: 1/40000approx. 1/60000. Western Blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH ~7.2, 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C

Handling

Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in:

Pérez-Cerezales, Boryshpolets, Afanzar, Brandis, Nevo, Kiss, Eisenbach: "Involvement of opsins in mammalian sperm thermotaxis." in: **Scientific reports**, Vol. 5, pp. 16146, (2016) (PubMed).

Duarte, Kobayashi, Kawamoto, Moriyama: "RELAXIN enhances differentiation and matrix mineralization through Relaxin/insulin-like family peptide receptor 2 (Rxfp2) in MC3T3-E1 cells in vitro." in: **Bone**, Vol. 65, pp. 92-101, (2015) (PubMed).

Yao, Peng, Dai: "The role of hepatocyte nuclear factor 4alpha in metastatic tumor formation of hepatocellular carcinoma and its close relationship with the mesenchymal-epithelial transition markers." in: **BMC cancer**, Vol. 13, pp. 432, (2014) (PubMed).

Wang, Li, Pan, Zhu, Wang: "Influence of hypercapnia on the synthesis of neuropeptides and their receptors in murine brain." in: **Respirology (Carlton, Vic.)**, Vol. 18, Issue 1, pp. 102-7, (2013) (PubMed).

Huang, Liu, Lan, Xie, Peng, Huang, Wang, Shen, Liu, Huang: "Berberine reduces fibronectin expression by suppressing the S1P-S1P2 receptor pathway in experimental diabetic nephropathy models." in: **PLoS ONE**, Vol. 7, Issue 8, pp. e43874, (2012) (PubMed).

There are more publications referencing this product on: Product page

Images

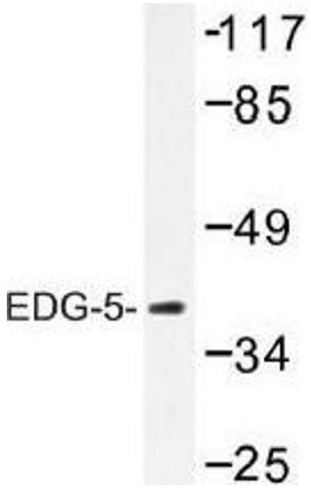

Image 1.