EDG-1 (Phospho Thr236) Rabbit pAb

CatalogNo: YP1193

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IF,ELISA

MW
- 42kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human S1P Receptor EDG1 around the phosphorylation site of Thr236. AA range:206-255

Specificity Phospho-EDG-1 (T236) Polyclonal Antibody detects endogenous levels of EDG-1 protein only when phosphorylated at T236.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RLtFR

Target Information

Gene name S1PR1

Protein Name Sphingosine 1-phosphate receptor 1

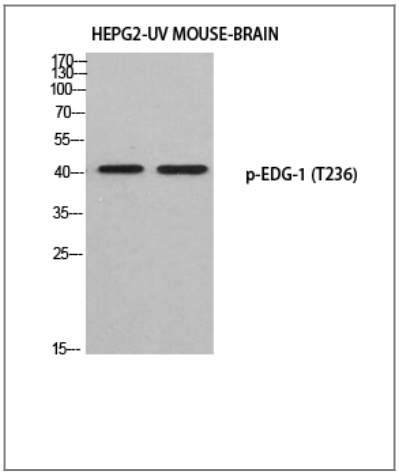
Organism	Gene ID	UniProt ID
Human	1901;	P21453;
Mouse	13609;	O08530;
Rat	29733;	P48303;

Cellular Localization Cell membrane ; Multi-pass membrane protein. Endosome. Membrane raft. Recruited to caveolin-enriched plasma membrane microdomains in response to oxidized 1-palmitoyl-2-arachidonoyl-sn-glycero-3-phosphocholine. Ligand binding leads to receptor internalization.

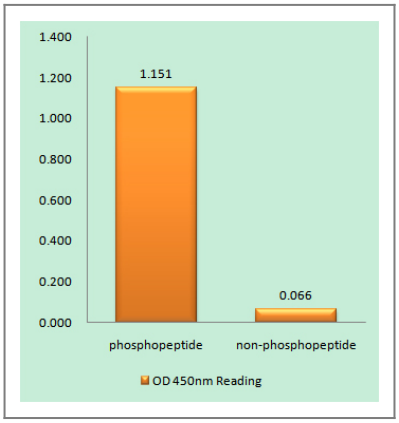
Tissue specificity Endothelial cells , and to a lesser extent , in vascular smooth muscle cells , fibroblasts , melanocytes , and cells of epithelioid origin.

Function Function: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. This inducible epithelial cell G-protein-coupled receptor may be involved in the processes that regulate the differentiation of endothelial cells. Seems to be coupled to the G (i) subclass of heteromeric G proteins. ,induction:By the tumor promoter phorbol 12-myristate 13-acetate (PME) in the presence of cycloheximide. ,PTM:S1P-induced endothelial cell migration requires the PKB/AKT1-mediated phosphorylation of the third intracellular loop at the Thr-236 residue. ,similarity:Belongs to the G-protein coupled receptor 1 family. ,tissue specificity:Endothelial cells , and to a lesser extent , in vascular smooth muscle cells , fibroblasts , melanocytes , and cells of epithelioid origin. ,

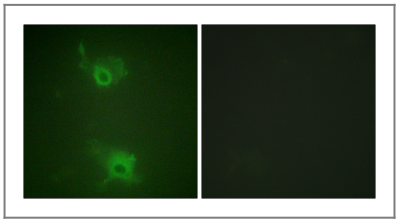
Validation Data



Western blot analysis of HEPG2-UV MOUSE-BRAIN using p-EDG-1 (T236) antibody. Antibody was diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using S1P Receptor EDG1 (Phospho-Thr236) Antibody



Immunofluorescence analysis of COS7 cells, using S1P Receptor EDG1 (Phospho-Thr236) Antibody. The picture on the right is blocked with the phospho peptide.

Contact information

Orders:	order.cn@immunoway.com
Support:	support.cn@immunoway.com
Telephone:	400-8787-807(China)
Website:	http://www.immunoway.com.cn
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
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