

## 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

### | Recommended Dilution Ratios

**WB 1:500-2000**

**IF 1:200-1:1000**

**ELISA 1:10000**

**Not yet tested in other applications.**

### | 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.

### | 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

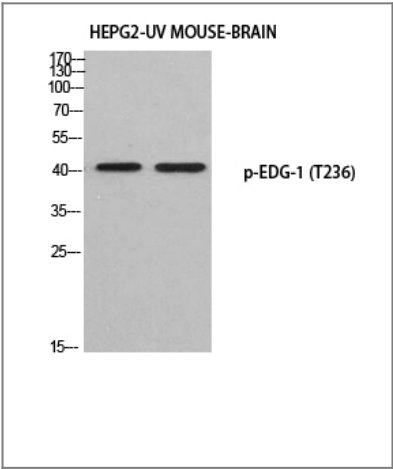
Organism	Gene ID	UniProt ID
Human	<a href="#">1901</a> ;	<a href="#">P21453</a> ;
Mouse	<a href="#">13609</a> ;	<a href="#">O08530</a> ;
Rat	<a href="#">29733</a> ;	<a href="#">P48303</a> ;

**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.

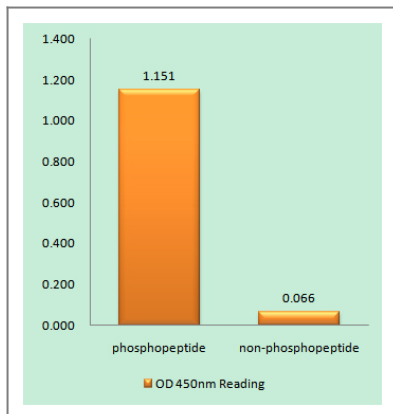
**Tissue specificity** Endothelial cells, and to a lesser extent, in vascular smooth muscle cells, fibroblasts, melanocytes, and cells of epithelioid origin.

**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.,

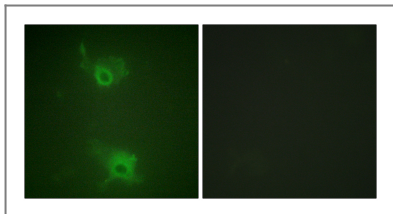
## Validation Data



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

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Please scan the QR code to access additional product information:  
**EDG-1 (Phospho Thr236) Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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