Product Datasheet

EDG1 Rabbit mAb

Catalog No: #49440

Package Size: #49440-1 50ul #49440-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

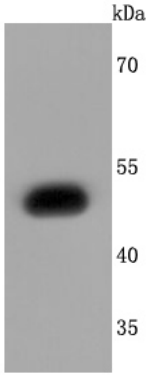
Description

Product Name	EDG1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM10-66
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	CD363 antibody CHEDG 1 antibody CHEDG1 antibody D1S3362 antibody ECGF 1 antibody ECGF1 antibody EDG 1 antibody EDG1 antibody endothelial differentiation G protein coupled receptor 1 antibody Endothelial differentiation G-protein coupled receptor 1 antibody Endothelial differentiation sphingolipid G protein coupled receptor 1 antibody FLJ58121 antibody G protein coupled sphingolipid receptor antibody g protein-coupled receptor edg-1 antibody S1P receptor 1 antibody S1P receptor Edg 1 antibody S1P receptor Edg-1 antibody S1P receptor Edg1 antibody S1P(1) receptor antibody S1P1 antibody s1pr1 antibody S1PR1_HUMAN antibody sphingolipid g-protein-coupled receptor 1 antibody Sphingosine 1 phosphate receptor Edg 1 antibody Sphingosine 1 phosphate receptor EDG1 antibody sphingosine 1- phosphate receptor 1 antibody Sphingosine 1-phosphate receptor 1 antibody Sphingosine 1-phosphate receptor Edg-1 antibody Sphingosine 1phosphate receptor type 1 S1P1 antibody
Accession No.	Swiss-Prot#:P21453
Uniprot	P21453
GeneID	1901;
Calculated MW	43 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

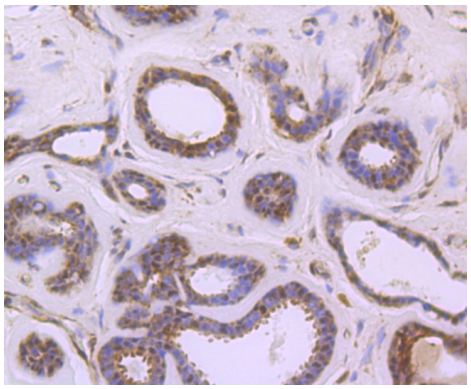
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

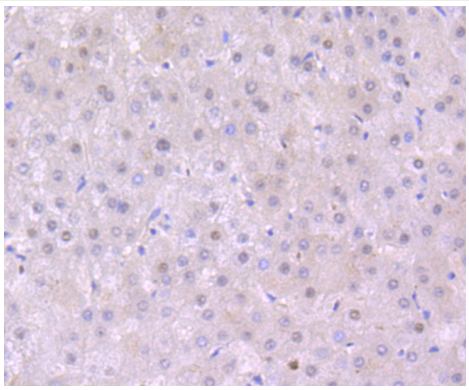
Images



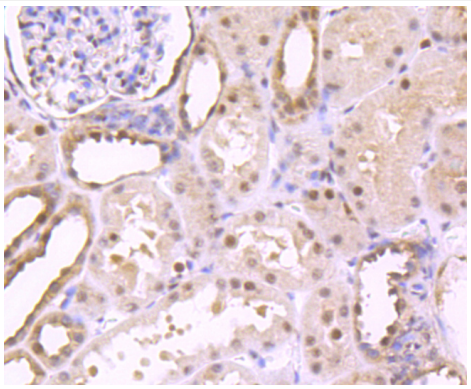
Western blot analysis of EDG1 on SH-SY5Y cells lysates using anti-EDG1 antibody at 1/1,000 dilution.



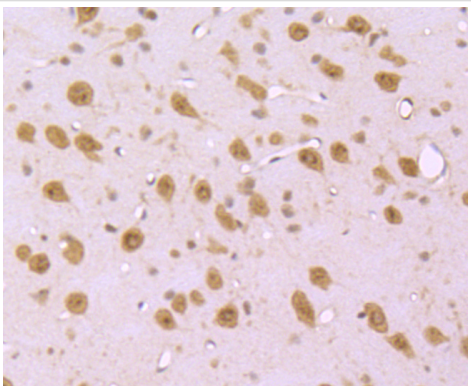
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-EDG1 antibody. Counter stained with hematoxylin.



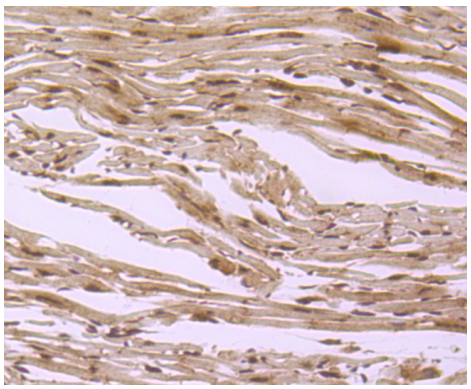
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-EDG1 antibody. Counter stained with hematoxylin.



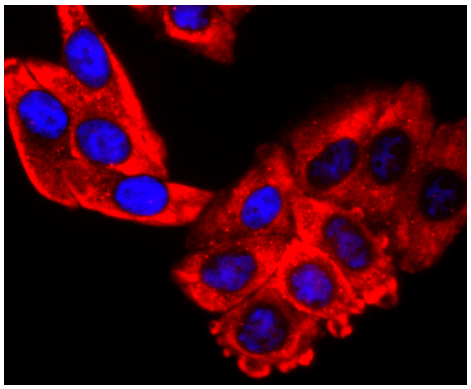
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-EDG1 antibody. Counter stained with hematoxylin.



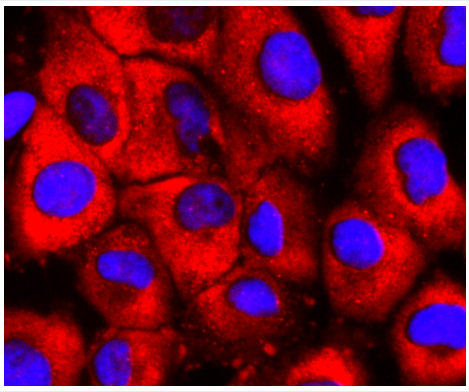
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-EDG1 antibody. Counter stained with hematoxylin.



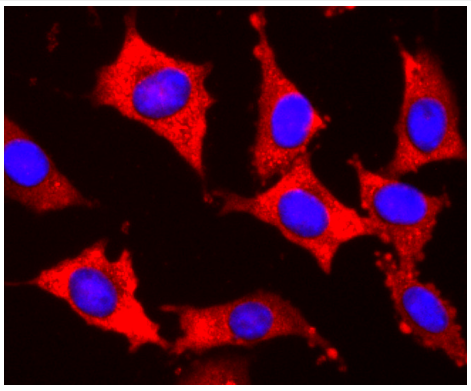
Immunohistochemical analysis of paraffin-embedded mouse herat tissue using anti-EDG1 antibody. Counter stained with hematoxylin.



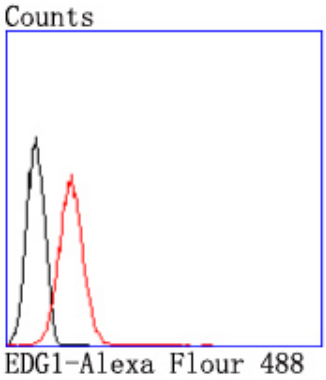
ICC staining EDG1 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining EDG1 in HUVEC cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining EDG1 in SH-SY5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Jurkat cells with EDG1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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 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. EDG-6, which is expressed in lymphoid and hematopoietic tissues and in lung, signals through G(i/o) proteins, which activate growth related pathways

References

Note: This product is for in vitro research use only