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## EDG1 Rabbit pAb

Catalog Number: bs-7112R

Target Protein: EDG1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted:Dog, Horse)

Predicted MW: 44 kDa

Entrez Gene: 1901

Swiss Prot: P21453

Source: KLH conjugated synthetic peptide derived from human EDG1/CD363: 51-150/382.

Purification: affinity purified by Protein A

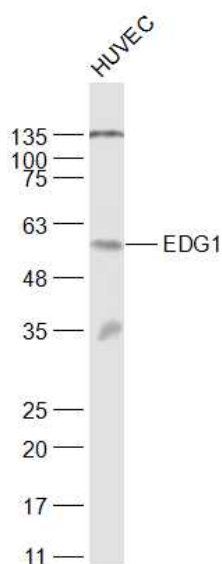
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

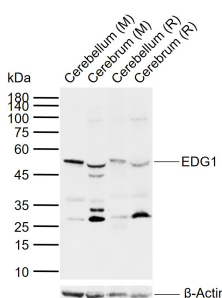
**Background:** Sphingosine-1-phosphate receptor 1 (S1P receptor 1 or S1P1), also known as endothelial differentiation gene 1 (EDG1) is a protein that in humans is encoded by the S1PR1 gene. S1PR1 is a G-protein-coupled receptor which binds the bioactive signaling molecule sphingosine 1-phosphate (S1P). S1PR1 belongs to a sphingosine-1-phosphate receptor subfamily comprising five members (S1PR1-5). S1PR1 was originally identified as an abundant transcript in endothelial cells and it has an important role in regulating endothelial cell cytoskeletal structure, migration, capillary-like network formation and vascular maturation. In addition, S1PR1 signaling is important in the regulation of lymphocyte maturation, migration and trafficking.

### VALIDATION IMAGES

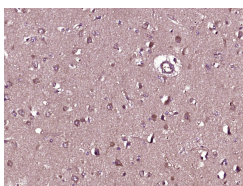
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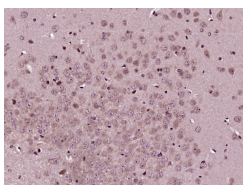
Sample: HUVEC(Human) Cell Lysate at 30 ug Primary: Anti-EDG1 (bs-7112R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kD Observed band size: 54 kD



Sample: Lane 1: Mouse Cerebellum tissue lysates Lane 2: Mouse Cerebrum tissue lysates Lane 3: Rat Cerebellum tissue lysates Lane 4: Rat Cerebrum tissue lysates Primary: Anti-EDG1 (bs-7112R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kDa Observed band size: 50 kDa



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EDG1) Polyclonal Antibody, Unconjugated (bs-7112R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EDG1) Polyclonal Antibody, Unconjugated (bs-7112R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=6.117] Arianna Mazzoli. et al. SKELETAL MUSCLE INSULIN RESISTANCE AND ADIPOSE TISSUE HYPERTROPHY PERSIST BEYOND THE RESHAPING OF GUT MICROBIOTA IN YOUNG RATS FED A FRUCTOSE-RICH DIET. J NUTR BIOCHEM. 2022 Dec;;109247 WB ; Rat . 36496062

[IF=5.6] Michela Terlizzi. et al. Sex Differences in Sphingosine-1-Phosphate Levels Are Dependent on Ceramide Synthase 1 and Ceramidase in Lung Physiology and Tumor Conditions. INT J MOL SCI. 2023 Jan;24(13):10841 WB ; Human . 37446018

[IF=4.2] Shangtao Wang. et al. The Combination of Gastrodin and Gallic Acid Synergistically Attenuates AngII-Induced Apoptosis and Inflammation via Regulation of Sphingolipid Metabolism. J INFLAMM RES. 2024 Oct 03 ; . 39372584

[IF=3.388] Xiao et al. Fingolimod Suppresses a Cascade of Core Vicious Cycle in Dry Eye NOD Mouse Model: Involvement of Sphingosine-1-Phosphate Receptors in Infiltrating Leukocytes. (2017) Invest.Ophthalmol.Vis.Sci. 58:6123-6132 IHC ; Mouse . 29214311

[IF=2.9] Dong Li. et al. Active immunization against gonadotropin-releasing hormone enhances the generation of B cells but does not

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affect their colonization in peripheral immune organs in male rats. J REPROD IMMUNOL. 2024 Nov;;104402 WB ; Rat . 39637674