bs-7112R **[Primary Antibody]**

EDG1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1901 **SWISS:** P21453

Target: EDG1

Immunogen: KLH conjugated synthetic peptide derived from human EDG1/CD363: 51-150/382. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

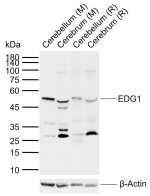
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

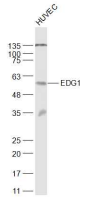
Predicted MW.: 44 kDa

Subcellular Location: Cell membrane

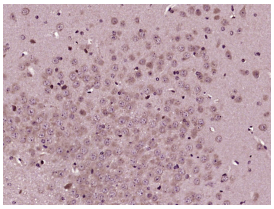
VALIDATION IMAGES



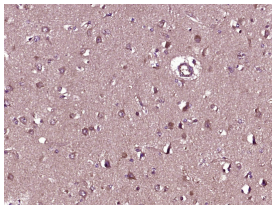
Sample: Lane 1: Mouse Cerebellum tissue lysates Lane 2: Mouse Cerebrum tissue lysates Lane 3: Rat Cerebellum tissue lysates Lane 4: Rat Cerebrum tissue lysates Primary: Anti-EDG1 (bs-7112R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kDa Observed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



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



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) instructionsand DAB staining.



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) instructionsand DAB staining.

SELECTED CITATIONS

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