



Anti-Endothelial differentiation, sphingolipid G-protein-coupled receptor 3 (EDG3), Rabbit-Polyclonal Antibody

Catalog No. GB-30085
Antigen species: Human
Host species: Rabbit

Quantity: 100µg
Reactivity: Human
Form: Peptide affinity purified antibody

Applications: ELISA

Target description

This EDG3 protein is a member of the EDG family of receptors, which are G protein-coupled receptors. This protein has been identified as a functional receptor for sphingosine 1-phosphate and likely contributes to the regulation of angiogenesis and vascular endothelial cell function.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located on the putative extracellular domain of human EDG3.

Application

The antibody titer is more than 90K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/3,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/50 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/30 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti- endothelial differentiation, sphingolipid G-protein-coupled receptor, 1 (EDG1), pAb (GB-30083)
2. Anti- endothelial differentiation, sphingolipid G-protein-coupled receptor, 2 (EDG2), pAb (GB-30084)
3. Anti- endothelial differentiation, sphingolipid G-protein-coupled receptor, 5 (EDG5), pAb (GB-30104)

Ab dilution	Pre-bleed	Purified-Ab
1:100	1.066	2.416
1:1,000	0.248	1.970
1:10,000	0.095	0.646
1:100,000	0.061	0.131
1:1,000,000	0.049	0.049
Titer		94.4K

Concentration of test purified pAb is 1mg/mL.

ELISA Protocol

Antigen is coated on EIA strips at 1µg per well. Add 200µl of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibody GB-30085 is diluted in series as $10^2 \sim 10^6$ folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as maxima dilution with >0.1 of ABS of antiserum minus pre-bleed serum.

Storage

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Licht, T., Tsurulnikov, L., Reuveni, H., Yarnitzky, T. and Ben-Sasson, S.A. Induction of pro-angiogenic signaling by a synthetic peptide derived from the second intracellular loop of S1P3 (EDG3). *Blood* 102 (6): 2099-2107, 2003.
2. Takuwa, Y. Regulation of Rho family G proteins and cell motility by the Edg family of sphingosin 1-phosphate receptors. *Tanpakushitsu Kakusan Koso* 47 (4 Suppl): 496-502, 2002.

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