

Ebi2 (A-20): sc-66436

BACKGROUND

Epstein-Barr virus-induced gene 2 (Ebi2) is a 357 amino acid multi-pass membrane protein. It is expressed in B lymphocytes and lymphoid tissues and may function in the modulation of the immune system. Out of the nine genes that are induced by the Epstein-Barr virus, Ebi2 exhibits the highest levels of upregulation. Ebi2 is a G protein-coupled receptor that signals through the G protein G_{α_i} . Ebi2 contains seven hydrophobic transmembrane regions and a putative N-linked glycosylation site at its extracellular N-terminus. Ebi2 is believed to be involved in regulating the effects of the Epstein-Barr virus on B lymphocytes. In addition, Ebi2 may play a role mediating normal lymphocyte functions.

REFERENCES

1. Birkenbach, M., Josefsen, K., Yalanchili, R., Lenoir, G. and Kieff, E. 1993. Epstein-Barr virus-induced genes: first lymphocyte-specific G protein-coupled peptide receptors. *J. Virol.* 67: 2209-2220.
2. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605741. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Cahir-McFarland, E.D., Carter, K., Rosenwald, A., Giltane, J.M., Henrickson, S.E., Staudt, L.M. and Kieff, E. 2004. Role of NF κ B in cell survival and transcription of latent membrane protein 1-expressing or Epstein-Barr virus latency III-infected cells. *J. Virol.* 78: 4108-4119.
4. Knight, J.S., Sharma, N. and Robertson, E.S. 2005. Epstein-Barr virus latent antigen 3C can mediate the degradation of the retinoblastoma protein through an SCF cellular ubiquitin ligase. *Proc. Natl. Acad. Sci. USA* 102: 18562-18566.
5. Rosenkilde, M.M., Benned-Jensen, T., Andersen, H., Holst, P.J., Kledal, T.N., Lüttichau, H.R., Larsen, J.K., Christensen, J.P. and Schwartz, T.W. 2006. Molecular pharmacological phenotyping of EBI. An orphan seven-transmembrane receptor with constitutive activity. *J. Biol. Chem.* 281: 13199-13208.
6. Lünemann, J.D. and Münz, C. 2007. Epstein-Barr virus and multiple sclerosis. *Curr. Neurol. Neurosci. Rep.* 7: 253-258.

CHROMOSOMAL LOCATION

Genetic locus: Ebi2 (mouse) mapping to 14 E5.

SOURCE

Ebi2 (A-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Ebi2 of mouse origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-66436 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Ebi2 (A-20) is recommended for detection of Ebi2 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

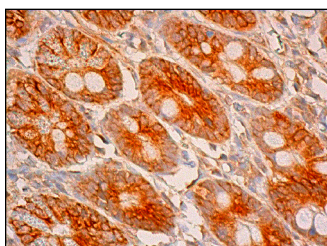
Suitable for use as control antibody for Ebi2 siRNA (m): sc-62254, Ebi2 shRNA Plasmid (m): sc-62254-SH and Ebi2 shRNA (m) Lentiviral Particles: sc-62254-V.

Molecular Weight of Ebi2: 41 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz[™]: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Ebi2 (A-20): sc-66436. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing membrane and cytoplasmic staining of glandular cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.