SANTA CRUZ BIOTECHNOLOGY, INC.

Eps8L3 (H-170): sc-135359



BACKGROUND

Eps8L3 (epidermal growth factor receptor kinase substrate 8-like protein 3), also known as EPS8R3, is a 593 amino acid protein that is related to Eps8, a novel EGF receptor substrate. Eps8L3 is a cytoplasmic protein that is part of a complex that contains Sos 1, Abi-1 and Eps8L2. Eps8L3 contains one SH3 domain, and has been found to interact with Abi-1 and FAS-L. Eps8L3 is expressed as three isoforms produced by alternative splicing and is encoded by a gene mapping to human chromosome 1. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes, comprises nearly 8% of the human genome and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

REFERENCES

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- 3. Tocchetti, A., et al. 2003. In silico analysis of the EPS8 gene family: genomic organization, expression profile, and protein structure. Genomics 81: 234-244.
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- 7. Betarbet, R., et al. 2008. Fas-associated factor 1 and Parkinson's disease. Neurobiol. Dis. 31: 309-315.
- Voss, M., et al. 2009. Identification of SH3 domain interaction partners of human FasL (CD178) by phage display screening. BMC Immunol. 10: 53.
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CHROMOSOMAL LOCATION

Genetic locus: EPS8L3 (human) mapping to 1p13.3; Eps8l3 (mouse) mapping to 3 F2.3.

SOURCE

Eps8L3 (H-170) is a rabbit polyclonal antibody raised against amino acids 1-170 mapping at the N-terminus of Eps8L3 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Eps8L3 (H-170) is recommended for detection of Eps8L3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Eps8L3 (H-170) is also recommended for detection of Eps8L3 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Eps8L3 siRNA (h): sc-88663, Eps8L3 siRNA (m): sc-144914, Eps8L3 shRNA Plasmid (h): sc-88663-SH, Eps8L3 shRNA Plasmid (m): sc-144914-SH, Eps8L3 shRNA (h) Lentiviral Particles: sc-88663-V and Eps8L3 shRNA (m) Lentiviral Particles: sc-144914-V.

Molecular Weight of Eps8L3 isoforms: 67/64 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluo-rescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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