

EVT-2 (I-12): sc-161567

BACKGROUND

EVT-2 (Evectin-2), also known as PLEKHB2 (pleckstrin homology domain-containing family B member 2), is a 222 amino acid peripheral membrane protein that is potentially coupled to signal transduction pathways that result in lipid second messenger production. EVT-2 is closely related to PHR1, in that it carries a pleckstrin homology domain at its N-terminus and is inserted into membranes through a hydrophobic anchor at its C-terminus. However PHR1 is specifically expressed in photoreceptors and myelinating glia, whereas EVT-2 is widely expressed in neural and non-neural tissues alike. The gene encoding EVT-2 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. There are three isoforms of EVT-2 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLEKHB2 (human) mapping to 2q21.1; Plekhh2 (mouse) mapping to 1 B.

SOURCE

EVT-2 (I-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EVT-2 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-161567 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EVT-2 (I-12) is recommended for detection of EVT-2 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).

EVT-2 (I-12) is also recommended for detection of EVT-2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EVT-2 siRNA (h): sc-94448, EVT-2 siRNA (m): sc-144966, EVT-2 shRNA Plasmid (h): sc-94448-SH, EVT-2 shRNA Plasmid (m): sc-144966-SH, EVT-2 shRNA (h) Lentiviral Particles: sc-94448-V and EVT-2 shRNA (m) Lentiviral Particles: sc-144966-V.

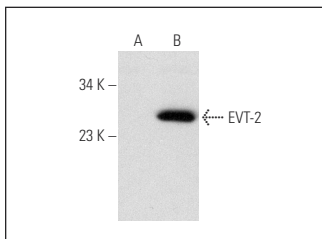
Molecular Weight of EVT-2: 25 kDa.

Positive Controls: EVT-2 (m): 293T Lysate: sc-120138.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



EVT-2 (I-12): sc-161567. Western blot analysis of EVT-2 expression in non-transfected: sc-117752 (A) and mouse EVT-2 transfected: sc-120138 (B) 293T whole cell lysates.

RESEARCH USE

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