SANTA CRUZ BIOTECHNOLOGY, INC.

ephrin-A1 (V-18): sc-911



BACKGROUND

The Eph subfamily represents the largest group of receptor protein kinases identified to date. There is increasing evidence that Eph family members are involved in central nervous system function and in development. Ligands for Eph receptors include ephrin-A1 (LERK-1/B61), identified as a ligand for the EphA2 (Eck) receptor; ephrin-A2 (ELF-1), identified as a ligand for the EphA3 (and EphA4 (Sek) receptors; ephrin-A3 (LERK-3), identified as a ligand for EphA5 (Ehk1) and EphA3 (Hek) receptors; ephrin-A4 (LERK-4), identified as a ligand for EphA5 (EkK7); ephrin-B1 (LERK-2), identified as a ligand for EphA5 (REK7); ephrin-B1 (LERK-2), identified as a ligand for the EphB1 (ElK) and EphB2 (Cek5) receptors; ephrin-B2 (LERK-5), identified as a ligand for the EphB1, EphB3 (Cek10) and EphB2 receptors; and ephrin-B3 (LERK-8), identified as a ligand for EphB1.

CHROMOSOMAL LOCATION

Genetic locus: EFNA1 (human) mapping to 1q22; Efna1 (mouse) mapping to 3 F1.

SOURCE

ephrin-A1 (V-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of ephrin-A1 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.

Blocking peptide available for competition studies, sc-911 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ephrin-A1 (V-18) is recommended for detection of ephrin-A1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

ephrin-A1 (V-18) is also recommended for detection of ephrin-A1 in additional species, including porcine.

Suitable for use as control antibody for ephrin-A1 siRNA (h): sc-39426, ephrin-A1 siRNA (m): sc-39427, ephrin-A1 shRNA Plasmid (h): sc-39426-SH, ephrin-A1 shRNA Plasmid (m): sc-39427-SH, ephrin-A1 shRNA (h) Lentiviral Particles: sc-39426-V and ephrin-A1 shRNA (m) Lentiviral Particles: sc-39426-V.

Molecular Weight of ephrin-A1 isoform 1: 24 kDa.

Molecular Weight of ephrin-A1 isoform 2: 21 kDa.

Positive Controls: ephrin-A1 (m): 293T Lysate: sc-120072 or THP-1 cell lysate: sc-2238.

RESEARCH USE

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

STORAGE

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

DATA





ephrin-A1 (V-18): sc-911. Western blot analysis of ephrin-A1 expression in non-transfected: sc-117752 (A) and mouse ephrin-A1 transfected: sc-120072 (B) 293T whole cell lysates.

of formalin fixed, paraffin-embedded human brain 3T tissue showing staining of neuropil.

SELECT PRODUCT CITATIONS

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- Lin, S., et al. 2010. Ligand targeting of EphA2 enhances keratinocyte adhesion and differentiation via desmoglein 1. Mol. Biol. Cell 21: 3902-3914.
- 9. Arocho, L.C., et al. 2011. Expression profile and role of EphrinA1 ligand after spinal cord injury. Cell. Mol. Neurobiol. 31: 1057-1069.

MONOS Satisfation Guaranteed

Try ephrin-A1 (A-5): sc-377362 or ephrin-A1 (B-12): sc-377165, our highly recommended monoclonal aternatives to ephrin-A1 (V-18).