

EphB6 (N-19): sc-7282

BACKGROUND

The Eph subfamily represents the largest group of receptor protein tyrosine kinases identified to date. While the biological activities of these receptors have yet to be determined, there is increasing evidence that they are involved in central nervous system function and in development. The Eph subfamily receptors of human origin (and their murine/avian homologs) include EphA1 (Eph), EphA2 (Eck), EphA3 (Hek4), EphA4 (Hek8), EphA5 (Hek7), EphA6 (Hek12), EphA7 (Hek11/MDK1), EphA8 (Hek3), EphB1 (Hek6), EphB2 (Hek5), EphB3 (Cek10, Hek2), EphB4 (Htk), EphB5 (Hek9) and EphB6 (Mep). Ligands for Eph receptors include ephrin-A4 (LERK-4) which binds EphA3 and EphB1. In addition, ephrin-A2 (ELF-1) has been described as the ligand for EphA4, ephrin-A3 (Ehk1-L) as the ligand for EphA5 and ephrin-B2 (Htk-L) as the ligand for EphB4 (Htk).

CHROMOSOMAL LOCATION

Genetic locus: EPHB6 (human) mapping to 7q34; Ephb6 (mouse) mapping to 6 B2.1.

SOURCE

EphB6 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EphB6 of human origin.

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-7282 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO 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.

APPLICATIONS

EphB6 (N-19) is recommended for detection of EphB6 of mouse, rat and human 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).

EphB6 (N-19) is also recommended for detection of EphB6 in additional species, including equine, canine, bovine and porcine.

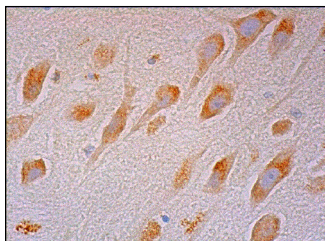
Suitable for use as control antibody for EphB6 siRNA (h): sc-39957, EphB6 siRNA (m): sc-39958, EphB6 shRNA Plasmid (h): sc-39957-SH, EphB6 shRNA Plasmid (m): sc-39958-SH, EphB6 shRNA (h) Lentiviral Particles: sc-39957-V and EphB6 shRNA (m) Lentiviral Particles: sc-39958-V.

Molecular Weight of EphB6: 110 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



EphB6 (N-19): sc-7282. Immunoperoxidase staining of formalin fixed, paraffin-embedded human hippocampus tissue showing cytoplasmic staining of neuronal cells and glial cells.

SELECT PRODUCT CITATIONS

1. Luo, H., et al. 2001. Cross-linking of EphB6 resulting in signal transduction and apoptosis in Jurkat cells. *J. Immunol.* 167: 1362-1370.
2. Hafner, C., et al. 2003. Loss of EphB6 expression in metastatic melanoma. *Int. J. Oncol.* 23: 1553-1559.
3. Hafner, C., et al. 2004. Differential gene expression of Eph receptors and ephrins in benign human tissues and cancers. *Clin. Chem.* 50: 490-499.
4. Xia, G., et al. 2005. Up-regulation of EphB4 in mesothelioma and its biological significance. *Clin. Cancer Res.* 11: 4305-4315.

PROTOCOLS

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


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Try **EphB6 (D-7): sc-398795** or **EphB6 (11D4): sc-134332**, our highly recommended monoclonal alternatives to EphB6 (N-19).