

# EphB3 (H-85): sc-28981

## 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: EPHB3 (human) mapping to 3q27.1; Ephb3 (mouse) mapping to 16 B1.

## SOURCE

EphB3 (H-85) is a rabbit polyclonal antibody raised against amino acids 266-350 mapping within an N-terminal extracellular domain of EphB3 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.

## STORAGE

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

## APPLICATIONS

EphB3 (H-85) is recommended for detection of EphB3 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).

EphB3 (H-85) is also recommended for detection of EphB3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EphB3 siRNA (h): sc-39951, EphB3 siRNA (m): sc-39952, EphB3 shRNA Plasmid (h): sc-39951-SH, EphB3 shRNA Plasmid (m): sc-39952-SH, EphB3 shRNA (h) Lentiviral Particles: sc-39951-V and EphB3 shRNA (m) Lentiviral Particles: sc-39952-V.

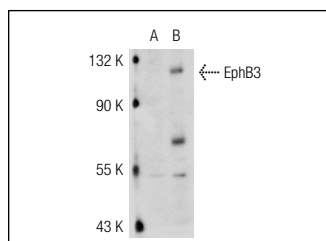
Molecular Weight of EphB3: 130 kDa.

Positive Controls: EphB3 (h): 293T Lysate: sc-116104 or HeLa whole cell lysate: sc-2200.

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

## DATA



EphB3 (H-85): sc-28981. Western blot analysis of EphB3 expression in non-transfected: sc-117752 (A) and human EphB3 transfected: sc-116104 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Satisfaction  
Guaranteed

Try **EphB3 (A-12): sc-514139** or **EphB3 (7E5): sc-100299**, our highly recommended monoclonal alternatives to EphB3 (H-85).