

# EphB2 (A-15): sc-27107

## 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: EPHB2 (human) mapping to 1p36.12; Ephb2 (mouse) mapping to 4 D3.

## SOURCE

EphB2 (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of EphB2 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-27107 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.

## APPLICATIONS

EphB2 (A-15) is recommended for detection of EphB2 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).

EphB2 (A-15) is also recommended for detection of EphB2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EphB2 siRNA (h): sc-39949, EphB2 siRNA (m): sc-39950, EphB2 shRNA Plasmid (h): sc-39949-SH, EphB2 shRNA Plasmid (m): sc-39950-SH, EphB2 shRNA (h) Lentiviral Particles: sc-39949-V and EphB2 shRNA (m) Lentiviral Particles: sc-39950-V.

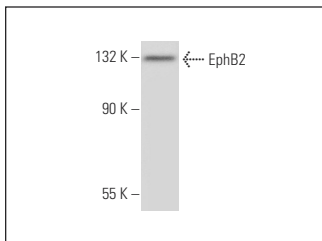
Molecular Weight of EphB2: 130 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or NIH/3T3 whole cell lysate: sc-2210.

## 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



EphB2 (A-15): sc-27107. Western blot analysis of EphB2 expression in Hep G2 whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Wang, D.J., et al. 2009. Expression of EphB2 in the development of anorectal malformations in fetal rats. *J. Pediatr. Surg.* 44: 592-599.

## 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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Try **EphB2 (2D12C6): sc-130068** or **EphB2 (48CT12.6.4): sc-130752**, our highly recommended monoclonal alternatives to EphB2 (A-15).