

EphA5 (C-16): sc-927

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. 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: EPHA5 (human) mapping to 4q13.1; EphA5 (mouse) mapping to 5 E1.

SOURCE

EphA5 (C-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of EphA5 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-927 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EphA5 (C-16) is recommended for detection of EphA5 of mouse, rat, human, and chicken 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).

EphA5 (C-16) is also recommended for detection of EphA5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for EphA5 siRNA (h): sc-39938, EphA5 siRNA (m): sc-39939, EphA5 shRNA Plasmid (h): sc-39938-SH, EphA5 shRNA Plasmid (m): sc-39939-SH, EphA5 shRNA (h) Lentiviral Particles: sc-39938-V and EphA5 shRNA (m) Lentiviral Particles: sc-39939-V.

Molecular Weight of EphA5: 130 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411 or mouse brain extract: sc-2253.

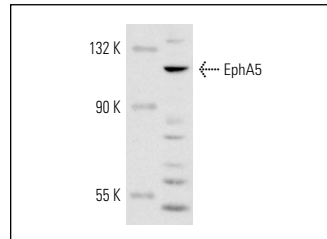
STORAGE

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

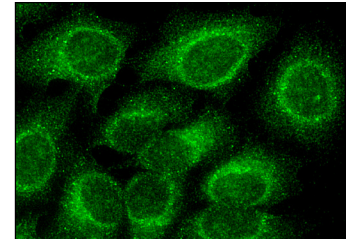
RESEARCH USE

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

DATA



EphA5 (C-16): sc-927. Western blot analysis of EphA5 expression in U-87 MG whole cell lysate.



EphA5 (C-16): sc-927. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

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Try **EphA5 (YT-12): sc-73947**, our highly recommended monoclonal alternative to EphA5 (C-16).