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/MKD1), 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 (Eph-1) has been described as the ligand for EphA4, ephrin-A3 (Hek1-L) as the ligand for EphA5 and ephrin-B2 (Htk-L) as the ligand for EphB4 (Htk).

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: EPHA4 (human) mapping to 2q36.1; EphA4 (mouse) mapping to 1 C4.

SOURCE

EphA4 (35) is a mouse monoclonal antibody raised against amino acids 279-472 of EphA4 of mouse origin.

PRODUCT

Each vial contains 50 µg IgG1 in 500 µl of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

STORAGE

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

APPLICATIONS

EphA4 (35) is recommended for detection of EphA4 of mouse, rat, human and canine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); not recommended for immunoprecipitation.


Molecular Weight of EphA4: 120 kDa.

Positive Controls: EphA4 (m2): 293T Lysate: sc-120067, HeLa whole cell lysate: sc-2200 or NIH/3T3 whole cell lysate: sc-2210.

DATA

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SELECT PRODUCT CITATIONS


RESEARCH USE

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

CONJUGATES

See EphA4 (D-4): sc-365503 for EphA4 antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.