# EphA8 (T-13): sc-31246



The Power to Question

#### **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).

# **REFERENCES**

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- Cheng, H.J., et al. 1994. Identification and cloning of ELF-1, a developmentally expressed ligand for the Mek4 and Sek receptor tyrosine kinases. Cell 79: 157-168.
- Ciossek, T., et al. 1995. Identification of alternatively spliced mRNAs encoding variants of MDK1, a novel receptor tyrosine kinase expressed in the murine nervous system. Oncogene 10: 97-108.
- Kozlosky, C.J., et al. 1995. Ligands for the receptor tyrosine kinases Hek and elk: isolation of cDNAs encoding a family of proteins. Oncogene 10: 299-306.
- 5. Fox, G.M., et al. 1995. DNA cloning and tissue distribution of five human Eph-like receptor protein-tyrosine kinases. Oncogene 10: 897-905.
- Valenzuela, D.M., et al. 1995. Identification of full length and truncated forms of Ehk-3, a novel member of the Eph receptor tyrosine kinase family. Oncogene 10: 1573-1580.
- Bennett, B.D., et al. 1995. Molecular cloning of a ligand for the Eph-related receptor protein-tyrosine kinase Htk. Proc. Natl. Acad. Sci. USA 92: 1866-1870.

### **CHROMOSOMAL LOCATION**

Genetic locus: EPHA8 (human) mapping to 1p36.12; Epha8 (mouse) mapping to 4 D3.

# SOURCE

EphA8 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of EphA8 of human origin.

### **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.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-31246 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **APPLICATIONS**

EphA8 (T-13) is recommended for detection of EphA8 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EphA8 (T-13) is also recommended for detection of EphA8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EphA8 siRNA (h): sc-39943, EphA8 siRNA (m): sc-39944, EphA8 shRNA Plasmid (h): sc-39943-SH, EphA8 shRNA Plasmid (m): sc-39944-SH, EphA8 shRNA (h) Lentiviral Particles: sc-39943-V and EphA8 shRNA (m) Lentiviral Particles: sc-39944-V.

Molecular Weight of EphA8: 126 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

# **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) with UltraCruz™ Mounting Medium: sc-24941.

## **PROTOCOLS**

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

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