



EphB1, CT (Ephrin Type-B Receptor 1, Tyrosine-protein Kinase Receptor EPH-2, NET, EPH-like Kinase 6, EK6, hEK6, HEK-6, EPHT2) (AP)

Catalog number

E3371-01K-AP

Supplier

United States Biological

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).

Applications

Suitable for use in ELISA, Western Blot, and Immunohistochemistry. Other applications not tested.

Recommended Dilution

ELISA: 1:1,000

Western Blot: 1:100-1:500

Immunohistochemistry: 1:50-1:100

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Note

Applications are based on unconjugated antibody.

Immunogen

Synthetic peptide selected from the C-terminal region of human EphB1 (KLH).

Formulation

Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).

Purity

Purified by Protein G affinity chromatography.



Specificity

Recognizes human EphB1. Species Crossreactivity: mouse.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

E IHC WB

Crossreactivity

Hu Mo

Storage

4°C Do Not Freeze

MW

109.884

Detection Method

AP

Reference

1.Prevost, N., et al., Proc. Natl. Acad. Sci. USA 99(14):9219-9224 (2002). 2.Wilkinson, D.G., Nat Rev Neurosci 2(3):155-164 (2001). 3.Xu, Q., et al., Philos. Trans. R. Soc. Lond., B, Biol. Sci. 355(1399):993-1002 (2000). 4.Holder, N., et al., Development 126(10):2033-2044 (1999). 5.Stein, E., et al., J. Biol. Chem. 273(3):1303-1308 (1998). 6.Zhen Sheng, et al. Pathobiology. 2008;75(5):274-80. (E-pub) 7.Jian-dong Wang, et al. Oncology 2007;73:238-245.