Product datasheet

Anti-EPHB3 Antibody

Catalog Number: *A04659*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-EPHB3 Antibody
Gene Name	EPHB3
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human EPHB3 recombinant protein (Position: H275-Q554).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	110 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Ephrin Receptor EphB3, is also known as human embryo kinase2(HEK2) or Eph-like tyrosine kinase2(ETK2). HEK2, which is a member of the EPH/ELK family of tyrosine kinases, encodes a 998-amino acid polypeptide having a single putative transmembrane domain, a secretory signal sequence, and 2 fibronectin repeats. The EPHB3 gene is mapped to human chromosome 3q21-qter. HEK2 interacts with 2 ligands of EPH-related kinases(LERKs), namely, LERK2(EFNB1) and LERK5(EFNB2). Coincubation of HEK2- and LERK2-expressing cells induces cell-cell adhesion and aggregation. Additionally, coexpression of HEK2 and LERK2 results in reduced kinase activity of HEK2.

Selected Validation Data

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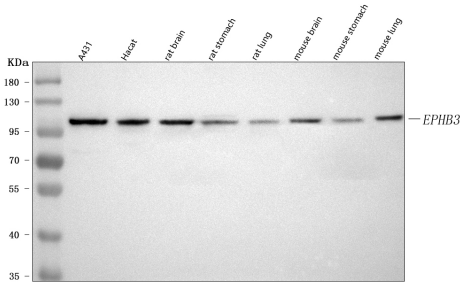
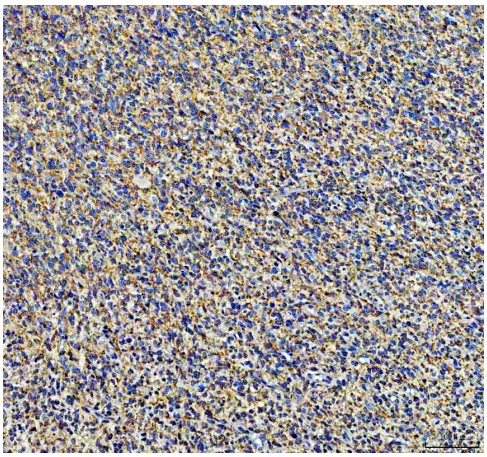


Western blot analysis of anti-EPHB3 antibody (A04659). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human A431 whole cell lysates,
Lane 2: human Hacat whole cell lysates,
Lane 3: rat brain tissue lysates,
Lane 4: rat stomach tissue lysates,
Lane 5: rat lung tissue lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse stomach tissue lysates,
Lane 8: mouse lung tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-EPHB3 antigen affinity purified polyclonal antibody (A04659) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for EPHB3 at approximately 110 kDa. The expected band size for EPHB3 is at 110-130 kDa.



IHC analysis of EPHB3 using anti-EPHB3 antibody (A04659). EPHB3 was detected in a paraffin-embedded section of human glioma tissue. The tissue section was incubated with rabbit anti-EPHB3 Antibody (A04659) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.