Datasheet for ABIN3042663

anti-EPH Receptor B3 antibody (C-Term)

2 Images

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Overview

Quantity:	100 µg
Target:	EPH Receptor B3 (EPHB3)
Binding Specificity:	AA 982-998, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Eph receptor B3/EPHB3 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Eph receptor B3, identical to the related rat and mouse sequences.
Sequence:	SIQDMRLQMN QTLPVQV
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Eph receptor B3/EPHB3 Antibody (ABIN3042663). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	EPH Receptor B3 (EPHB3)
Alternative Name:	EPHB3 (EPHB3 Products)
Background:	Synonyms: Ephrin type-B receptor 3,2.7.10.1,EPH-like tyrosine kinase 2,EPH-like kinase 2,Embryonic kinase 2,EK2,hEK2,Tyrosine-protein kinase TYRO6,EPHB3,ETK2, HEK2, TYRO6, Tissue Specificity: Ubiquitous. Background: 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. Sequence Similarities: Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
Molecular Weight:	130 kDa
UniProt:	P54753
Pathways:	RTK Signaling

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Rat, Mouse Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse 1. Bohme, B., Holtrich, U., Wolf, G., Luzius, H., Grzeschik, K.-H., Strebhardt, K., Rubsamen-Waigmann, H.PCR mediated detection of a new human receptor-tyrosine-kinase, HEK 2.Oncogene 8: 2857-2862, 1993. 2. Bohme, B., VandenBos, T., Cerretti, D. P., Park, L. S., Holtrich, U., Rubsamen-Waigmann, H., Strebhardt, K.Cell-cell adhesion mediated by binding of membrane-anchored ligand LERK-2 to the EPH-related receptor human embryonal kinase 2 promotes tyrosine kinase activity.J. Biol. Chem. 271: 24747-24752, 1996.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

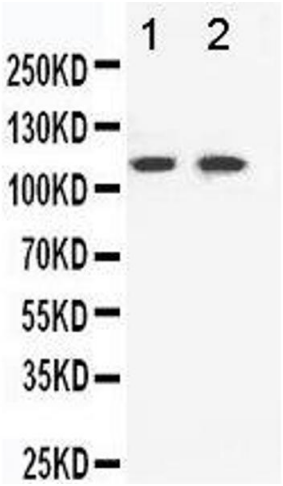
Application Details

Restrictions:	For Research Use only

Handling

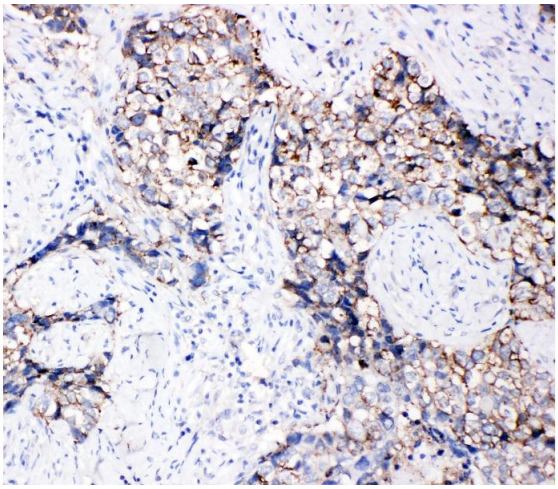
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-Eph receptor B3 antibody, Western blotting Lane 1: HELA Cell Lysate Lane 2: A549 Cell Lysate



Immunohistochemistry

Image 2. Anti-Eph receptor B3 antibody, IHC(P) IHC(P): Human Lung Cancer Tissue