

Datasheet for ABIN391924

anti-EPH Receptor B4 antibody**2** Images**2** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	EPH Receptor B4 (EPHB4)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This EphB4 antibody is generated from rabbits immunized with human recombinant EphB4 protein.
Clone:	RB14731
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	EPH Receptor B4 (EPHB4)
Alternative Name:	EphB4 (EPHB4 Products)
Background:	Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships,

Target Details

ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. EphB4 binds to ephrin-B2 and plays an essential role in vascular development.

Molecular Weight: 108270

Gene ID: 2050

NCBI Accession: [NP_004435](#)

UniProt: [P54760](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

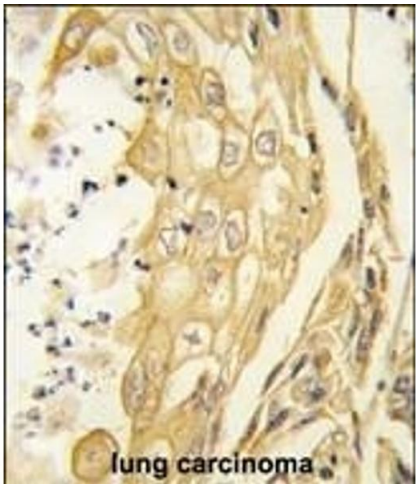
Publications

Product cited in: Aslam, Abraham, Mansoor, Druker, Tyner, Keller: "PDGFR? reverses EphB4 signaling in alveolar rhabdomyosarcoma." in: **Proceedings of the National Academy of Sciences of the United**

States of America, Vol. 111, Issue 17, pp. 6383-8, (2014) ([PubMed](#)).

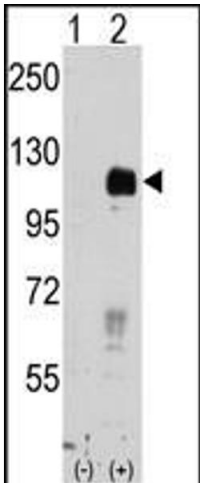
Brantley-Sieders, Jiang, Sarma, Badu-Nkansah, Walter, Shyr, Chen: "Eph/ephrin profiling in human breast cancer reveals significant associations between expression level and clinical outcome." in: **PLoS ONE**, Vol. 6, Issue 9, pp. e24426, (2011) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with the EphB4 antibody (ABIN391924 and ABIN2841734) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of EphB4 (arrow) using rabbit polyclonal EphB4 Antibody (ABIN391924 and ABIN2841734). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the EphB4 gene (Lane 2) (Origene Technologies).