



Datasheet for ABIN1945089 anti-EPHA2/3/4 antibody



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Overview

Quantity:	100 µg
Target:	EPHA2/3/4
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPHA2/3/4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Isotype: IgG

Target Details

Target:	EPHA2/3/4
Alternative Name:	EPHA2/3/4 (EPHA2/3/4 Products)
Background:	Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion, proliferation and differentiation of cells. Regulates cell adhesion and differentiation through DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 (MAPK3/MAPK1, respectively) signaling pathway. May also participate in UV radiation-induced apoptosis and have a ligand-

Target Details

independent stimulatory effect on chemotactic cell migration. During development, may function in distinctive aspects of pattern formation and subsequently in development of several fetal tissues. Involved for instance in angiogenesis, in early hindbrain development and epithelial proliferation and branching morphogenesis during mammary gland development. Engaged by the ligand ephrin-A5/EFNA5 may regulate lens fiber cells shape and interactions and be important for lens transparency development and maintenance. With ephrin-A2/EFNA2 may play a role in bone remodeling through regulation of osteoclastogenesis and osteoblastogenesis.

Molecular Weight: 108266 Da

Gene ID: 1969

UniProt: [P29317](#)

Application Details

Application Notes: IF: 1:100. WB: 1:1000. WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

Precaution of Use: WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

Storage: 4 °C,-20 °C

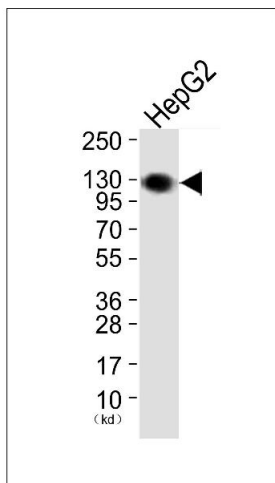
Publications

Product cited in: Zelinski, Zantek, Stewart, Irizarry, Kinch: "EphA2 overexpression causes tumorigenesis of mammary epithelial cells." in: **Cancer research**, Vol. 61, Issue 5, pp. 2301-6, (2001) ([PubMed](#)).

Miao, Burnett, Kinch, Simon, Wang: "Activation of EphA2 kinase suppresses integrin function and causes focal-adhesion-kinase dephosphorylation." in: **Nature cell biology**, Vol. 2, Issue 2, pp. 62-9, (2000) ([PubMed](#)).

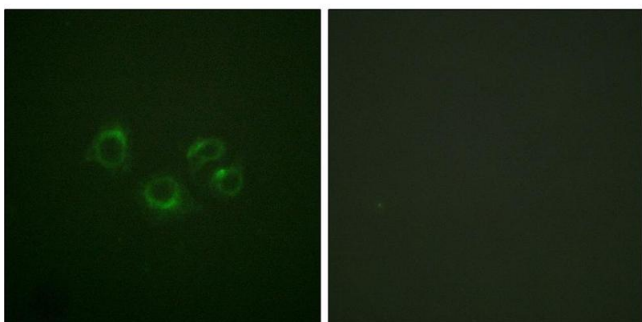
Lindberg, Hunter: "cDNA cloning and characterization of eck, an epithelial cell receptor protein-tyrosine kinase in the eph/elk family of protein kinases." in: **Molecular and cellular biology**, Vol. 10, Issue 12, pp. 6316-24, (1991) ([PubMed](#)).

Images



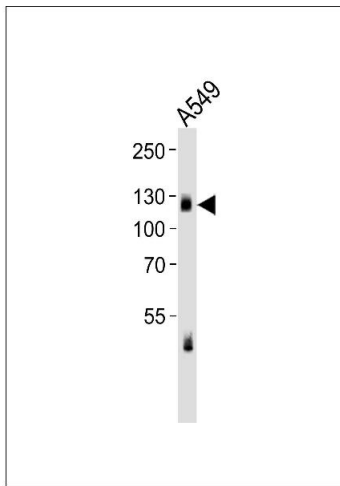
Western Blotting

Image 1. Western blot analysis of extracts from HepG2 cells, using EPHA2/3/4 (Ab-588/596) Antibody. The lane on the left is treated with synthesized peptide.



Immunofluorescence

Image 2. Immunofluorescence analysis of A549 cells, using EPHA2/3/4 (Ab-588/596) antibody.



Western Blotting

Image 3. Western blot analysis of lysate from A549 cell line, using EPHA2/3/4 Antibody (Ab-588/596) (ABIN483219 and ABIN1532603). ABIN483219 and ABIN1532603 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 μ g.