



Datasheet for ABIN6255959
anti-EPHA2/3/4 antibody (pTyr588, pTyr596)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	EPHA2/3/4
Binding Specificity:	pTyr588, pTyr596
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPHA2/3/4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human EPHA2/3/4 around the phosphorylation site of Tyrosine 588 and 596
Isotype:	IgG
Specificity:	Phospho-EPHA2/3/4(Tyr588/596) Antibody detects endogenous levels of EPHA2 and 3 only when phosphorylated at Tyrosine 588 and 596
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target:	EPHA2/3/4
---------	-----------

Target Details

Alternative Name: [EPHA2/3/4 \(EPHA2/3/4 Products\)](#)

Background: Description: 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-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.

Gene: [EPHA2](#)

Molecular Weight: 130kDa

Gene ID: 1969

UniProt: [P29317](#), [P29320](#), [P54764](#)

Application Details

Application Notes: WB 1:500-1:2000 IF/ICC 1:100-1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

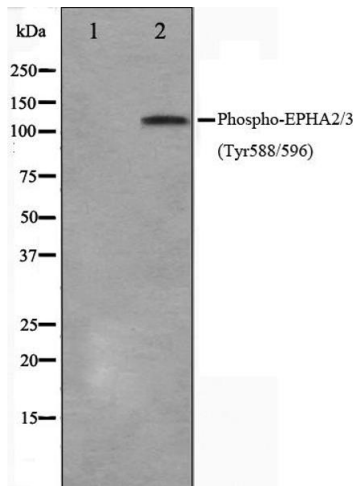
Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C.Stable for 12 months from date of receipt
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis on HepG2 cell lysate using Phospho-EPHA2/3(Tyr588/596) Antibody, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6266452 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody.