Datasheet for ABIN684508

anti-EPH Receptor A2 antibody (pTyr594)

2 Images

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Overview

Quantity:	100 µL
Target:	EPH Receptor A2 (EPHA2)
Binding Specificity:	pTyr594
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor A2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human EphA2 around the phosphorylation site of Tyr594
Isotype:	IgG
Specificity:	This phosphorylation site is homologous to Tyr595 in Mouse and Rat. Due to the highly conserved nature of this protein to EphA4 and EphA5, this antibody may react with these EphA4 when phosphorylated at Tyr602 (hu, mu, rt) and EphA5 when phosphorylated at Tyr656 in Human, Tyr495 in Mouse, and Tyr658 in Rat.
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Horse,Chicken,Rabbit

Product Details

Purification:	Purified by Protein A.

Target Details

Target:	EPH Receptor A2 (EPHA2)
Alternative Name:	EphA2 (EPHA2 Products)
Background:	Synonyms: ECK, CTPA, ARCC2, CTPP1, CTRCT6, Ephrin type-A receptor 2, Epithelial cell kinase, Tyrosine-protein kinase receptor ECK, EPHA2 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-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 ID:	1969
UniProt:	P29317
Pathways:	RTK Signaling

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200

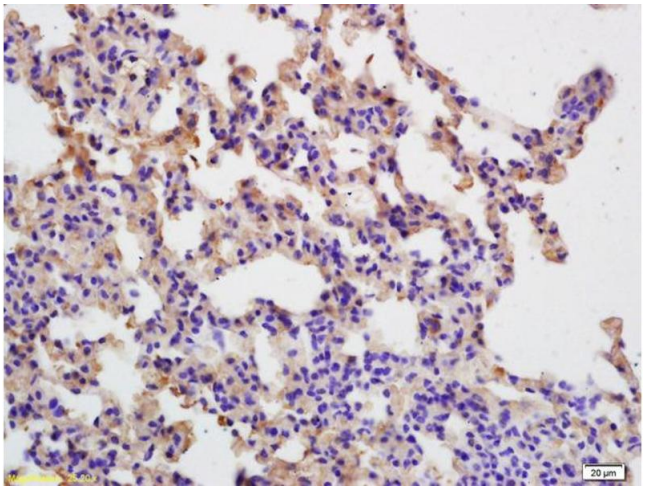
Application Details

	IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

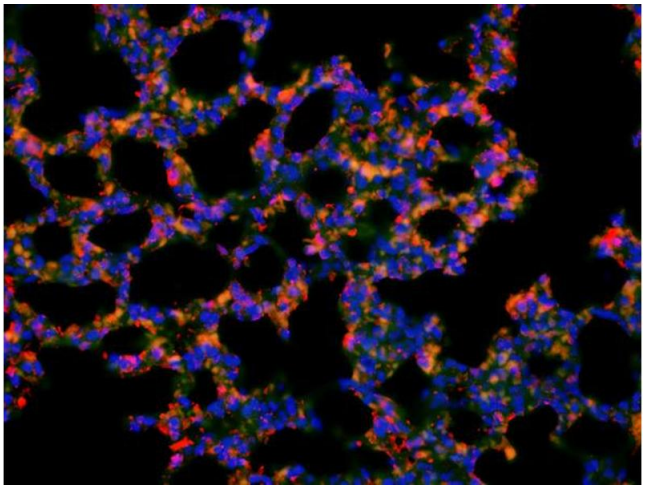
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse lung labeled with Anti-Phospho-EphA2 (Tyr594) Polyclonal Antibody, Unconjugated (ABIN684508) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunofluorescence

Image 2. Formalin-fixed and paraffin-embedded mouse lung labeled with Anti-Phospho-EphA2 (Tyr594) Polyclonal Antibody, Unconjugated (ABIN684508) 1:200, overnight at 4°C, The secondary antibody was Goat Anti-Rabbit IgG,Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.