EPHA2/3/4 (Phospho-Tyr588/596) Antibody

Catalog No: #11690

Package Size: #11690-1 50ul #11690-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

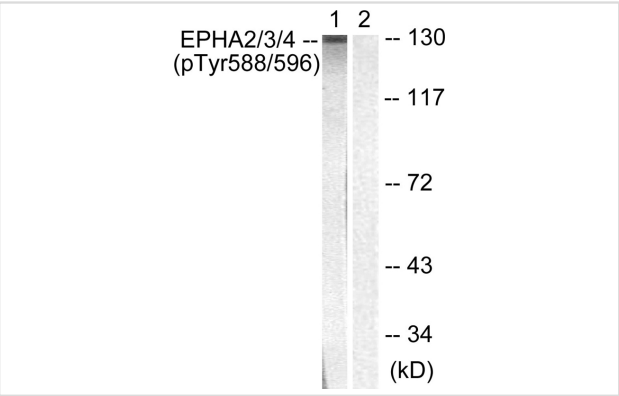
Product Name	EPHA2/3/4 (Phospho-Tyr588/596) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of EPHA2/3/4 only when phosphorylated at tyrosine 588/596
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 588/596 (K-T-Y(p)-V-R)/(R-T-Y(p)-V-D) derived from Human EPHA2/3/4.
Target Name	EPHA2/3/4
Modification	Phospho
Other Names	ECK; MPK-5; SEK2; kinase EphA2;
Accession No.	Swiss-Prot#: P29317/P29320/P54764; NCBI Gene#: 1969/2042/2043; NCBI Protein#: NP_004422.2.
Uniprot	P29317
GeneID	1969;
SDS-PAGE MW	130kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

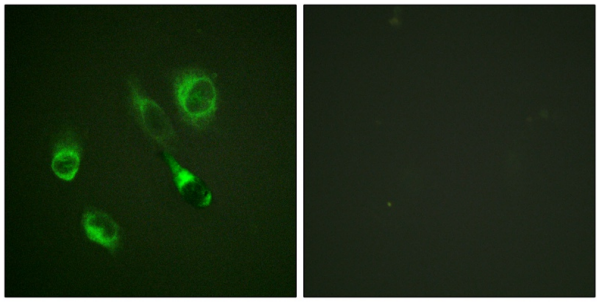
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from HepG2 cells using EPHA2/3/4 (Phospho-Tyr588/596) Antibody #11690.The lane on the right is treated with the antigen-specific peptide.



Immunofluorescence staining of methanol-fixed HeLa cells using EPHA2/3/4 (Phospho-Tyr588/596) Antibody #11690.

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.

Lindberg R.A., Mol. Cell. Biol. 10:6316-6324(1990).
Zhang Y., Mol. Cell. Proteomics 4:1240-1250(2005).
Zhuang G., J. Biol. Chem. 282:2683-2694(2007)

Note: This product is for in vitro research use only