

## 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

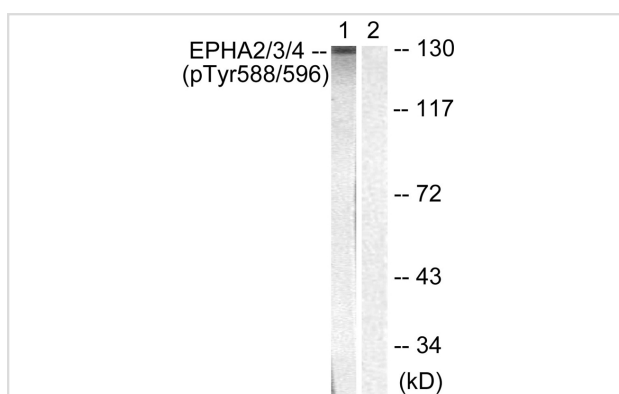
|                       |  |
|-----------------------|--|
| Product Name          | EPHA2/3/4 (Phospho-Tyr588/596) Antibody  |
| Host Species          | Rabbit   |
| Clonality             | Polyclonal   |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography 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.   |
| SDS-PAGE MW           | 130kd  |
| Concentration         | 1.0mg/ml   |
| Formulation           | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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

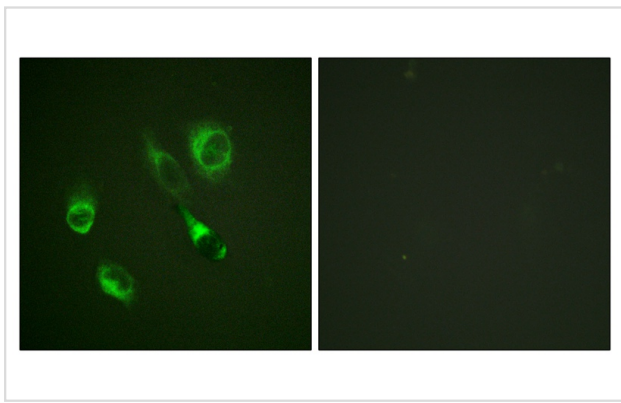
Immunofluorescence: 1:100~1:200

## 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 and is not intended for use in humans or animals.