



EPHA2/EPHA3/EPHA4 (Ab-588/596) Antibody

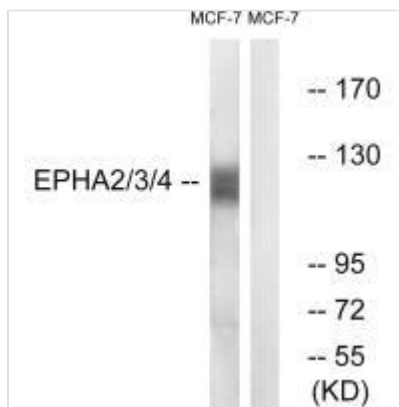
Product Code	CSB-PA234206
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P29317
Immunogen	Synthesized non-phosphopeptide derived from Human EPHA2/3/4 around the phosphorylation site of tyrosine 588/596 (T-Y(p)-V-D-P).
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous levels of total EPHA2/3/4 protein
Tested Applications	ELISA, WB, IF; WB:1:500-1:3000, IF:1:100-1:500
Relevance	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. Blandine de Saint-Vis, Blood, Dec 2003; 102: 4431 - 4440. Mirella Dottori, Blood, Oct 1999; 94: 2477 - 2486. Maria J. Donoghue, J. Neurosci., Jul 1999; 19: 5967.
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	EC 2.7.10.1; ECK; Ephrin type-A receptor 2 precursor; Epithelial cell kinase; MPK-5



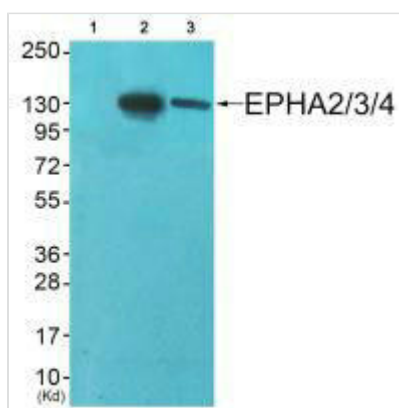
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	EPHA2/EPHA3/EPHA4

Image


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



Western blot analysis of extracts from MCF7 cells, using EPHA2/3/4 (Ab-588/596) antibody.



Western blot analysis of extracts from A549 cells (Lane 2) and HepG2 cells (Lane 3), using EPHA2/3/4 (Ab-588/596) antibody. The lane on the left is treated with synthesized peptide.