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AP55847PU-S Polyclonal Antibody to EPHA2 / EPHA5 pTyr594 - Aff - Purified

Alternate names: ECK, EK7, Eph receptor A5, Eph receptor A5, Ephrin type-A receptor 2, Ephrin type-A receptor 5, Epithelial cell kinase, Epithelial cell kinase, Tyrosine-protein kinase receptor ECK

Quantity: 50 µg

Concentration: 1.0 mg/ml

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.

Uniprot ID: P29317

NCBI: NP_004422.2

GeneID: 1969

Host: Rabbit

Immunogen: Peptide sequence around phosphorylation site of tyrosine 594 (H-T-Y(p)-E-D) derived from Human EPHA2/5 (KLH-conjugated)

Format:
State: Liquid Ig fraction
Purification: Affinity chromatography using epitope-specific peptide
Buffer System: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

Applications: Western blot: 1:500~1:1000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: 110 kDa

Specificity: The Antibody detects endogenous levels of EPHA2 only when phosphorylated at tyrosine 594.

Species Reactivity: **Tested:** Human, Mouse

Storage: Upon receipt, store undiluted (in aliquots) at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Lindberg RA, Hunter T. cDNA cloning and characterization of eck, an epithelial cell receptor protein-tyrosine kinase in the eph/elk family of protein kinases. Mol Cell Biol. 1990 Dec;10(12):6316-24. PubMed PMID: 2174105.
2. Gregory SG, Barlow KF, McLay KE, Kaul R, Swarbreck D, Dunham A, et al. The DNA sequence and biological annotation of human chromosome 1. Nature. 2006 May

18;441(7091):315-21. PubMed PMID: 16710414.

Pictures:

Western blot analysis of extracts from JK cells (Lane 2), using EPHA2/5 (Phospho-Tyr594) Antibody AP55847PU-N. The lane on the left is treated with antigen-specific peptide.