

Rabbit anti-Human EPHA1 Polyclonal Antibody | anti-EPHA1 antibody

EPHA1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321914	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

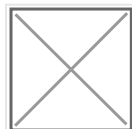
PRODUCT SYNONYMS

EPHA1; Polyclonal Antibody; EPHA1 Antibody; EPH; EPH receptor A1; EPH tyrosine kinase 1; EPH tyrosine kinase; EphA1; EPHA1_HUMAN; Ephrin receptor Eph A1; Ephrin type A receptor 1; Ephrin type-A receptor 1; EPHT 1; EPHT; EPHT1; Erythropoietin producing hepatoma amplified sequence; Erythropoietin-producing hepatoma receptor; Esk; hEpha1; MGC163163; Oncogene EPH; Soluble EPHA1 variant 1; Soluble EPHA1 variant 2; Tyrosine protein kinase receptor EPH; Tyrosine-protein kinase receptor EPH; anti-EPHA1 antibody

PRODUCT SPECIFICATIONS

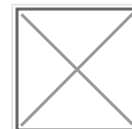
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	EPHA1 antibody detects endogenous levels of total EPHA1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	976
Applicable Applications for anti-EPHA1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human EPHA1
Subcellular Location	Cell Membrane
Tissue Specificity	Overexpressed in several carcinomas.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of EPHA1 expression in COLO205 cells, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321914 staining HCT116 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHA1 antibody	Description: The Eph family of receptors comprises the largest known family of receptor tyrosine kinases. Ligands of Eph family receptors are structurally related membrane-bound proteins that can be subdivided into two major subclasses, ephrin-A and ephrin-B. Expression of Eph receptors is tissue specific and appears to be tied to developmental events. Function: 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. Binds with a low affinity EFNA3 and EFNA4 and with a high affinity to EFNA1 which most probably constitutes its cognate/functional ligand. Upon activation by EFNA1 induces cell attachment to the extracellular matrix inhibiting cell spreading and motility through regulation of ILK and downstream RHOA and RAC. Plays also a role in angiogenesis and regulates cell proliferation. May play a role in apoptosis. Subunit Structure: Homodimer. Forms a signaling complex with LCK; PTK2B/PYK2 and PI3-kinase upon activation by EFNA1; regulates T-lymphocytes migration. Interacts (via SAM domain) with ILK (via ANK repeats); stimulated by EFNA1 but independent of the kinase activity of EPHA1. Interacts (kinase activity-dependent) with PTK2/FAK1. Post-translational Modifications: Phosphorylated. Autophosphorylation is stimulated by its ligand EFNA1. Ubiquitinated. Similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	221316650
NCBI GeneID	2041
NCBI Accession #	NP_005223.4
NCBI GenBank Nucleotide #	NM_005232.4
UniProt Accession #	P21709; Q15405; A1L3V3; B5A966; B5A967
Molecular Weight	Observed: 108 kDa Predicted: 109 kDa
NCBI Official Full Name	ephrin type-A receptor 1
NCBI Official Synonym Full Names	EPH receptor A1
NCBI Official Symbol	EPHA1
NCBI Official Synonym Symbols	EPH; EPHT; EPHT1
NCBI Protein Information	ephrin type-A receptor 1
UniProt Protein Name	Ephrin type-A receptor 1
UniProt Gene Name	EPHA1
UniProt Synonym Gene Names	EPH; EPHT; EPHT1; hEpha1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.