

Mouse anti-Human EPHA2 Monoclonal Antibody | anti-EPHA2 antibody

anti-human EphA2 receptor tyrosine kinase (EphA2) monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71474	Mouse	Human	Immunofluorescence, ELISA, Flow Cytometry, Functional Assay

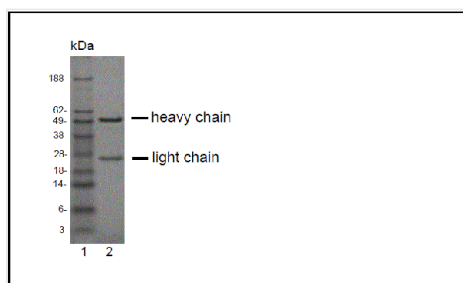
PRODUCT SYNONYMS

EPHA2; Monoclonal Antibody; anti-human EphA2 receptor tyrosine kinase (EphA2) monoclonal antibody; Eph receptor tyrosine kinase A2; anti-EPHA2 antibody

PRODUCT SPECIFICATIONS

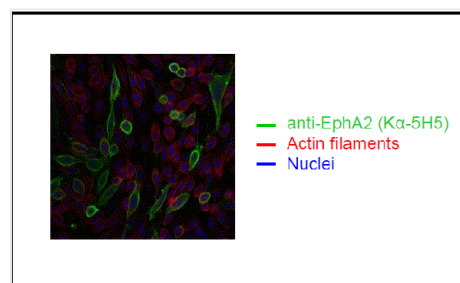
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	K?-5H5
Specificity	anti-human EphA2
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	976
Applicable Applications for anti-EPHA2 antibody	IF (Immunofluorescence), ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human EphA2
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



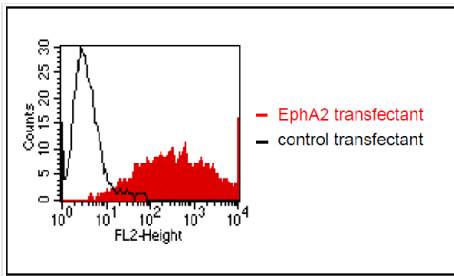
Application Data

Fig.3: SDS-PAGE analysis of purified K?-5H5 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 ?g of purified K?-5H5 antibody. Proteins were separated by SDS-PAGE and stained with RAPID StainTM Reagent.



Application Data

Fig.2: Spectral Confocal Microscopy of CHO cells using K?-5H5 Cat.# GM-0901. CHO cells were transiently transfected with an expression vector encoding EphA2. Binding of K?-5H5 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).



Application Data

Fig.1: FACS analysis of BOSC23 cells using K7-5H5 Cat.# GM-0901. BOSC23 cells were transiently transfected with an expression vector encoding either EphA2 (red curve) or an irrelevant protein (control transfectant). Binding of K7-5H5 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with EphA2 transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHA2 antibody	Background: EphA2 (Eph receptor tyrosine kinase A2) belongs to the Eph tyrosine receptor family, the largest receptor tyrosine kinase family of transmembrane proteins. It encodes a 130 kDa transmembrane protein which is primarily found in adult human epithelial cells (1). Eph receptors and their ephrin ligands are important mediators of cell-cell communication and play roles in embryonic patterning, neuronal targeting, and vascular development during normal embryogenesis (2,3). The Eph family of receptor tyrosine kinases is frequently overexpressed in a wide variety of cancers and tumor cell lines. In particular, EphA2 is overexpressed in prostate, lung and colon cancers and 40% of breast cancers and it represent an attractive potential target for drug design (3,4).
References	Lindberg RA and Hunter T (1990). cDNA cloning and characterization of eck, an epithelial cell receptor protein-tyrosine kinase in the Eph/elk family of protein kinases. <i>Mol Cell Biol</i> 10:6316–24. Brantley-Sieders d, Schmidt s, Parker M and Chen J (2004). Eph receptor tyrosine kinases in tumor and tumor microenvironment. <i>Curr Pharm Des</i> 10(27):3431-42 Nakamoto M and Bergmann AD (2002). Diverse roles for the Eph family of receptor tyrosine kinases in carcinogenesis. <i>Microsc Res Tech</i> 1; 59(1):58-67 Ireton RC and Chen J (2005). EphA2 receptor tyrosine kinase as a promising target for cancer therapeutics. <i>Curr Canc Drug Targets</i> 5(3): 149-57

NCBI AND UNIPROT INFORMATION

NCBI GI #	32967311
NCBI GeneID	1969
NCBI Accession #	NP_004422.2
NCBI GenBank Nucleotide #	NM_004431.3
UniProt Accession #	P29317; Q8N3Z2
Molecular Weight	108,266 Da
NCBI Official Full Name	ephrin type-A receptor 2
NCBI Official Synonym Full Names	EPH receptor A2
NCBI Official Symbol	EPHA2
NCBI Official Synonym Symbols	ECK; CTPA; ARCC2; CTPP1; CTRCT6
NCBI Protein Information	ephrin type-A receptor 2; soluble EPHA2 variant 1; tyrosine-protein kinase receptor ECK; epithelial cell receptor protein tyrosine kinase
UniProt Gene Name	EPHA2
UniProt Synonym Gene Names	ECK
UniProt Entry Name	EPHA2_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/epha2-antibody-clone-k-5h5-immunofluorescence-competitive-elisa-flow-cytometry-elisa/71474>