Datasheet for ABIN179724

anti-EPH Receptor A2 antibody

6 Images

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Overview

Quantity:	100 µg
Target:	EPH Receptor A2 (EPHA2)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EPH Receptor A2 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Cell-ELISA (cELISA)

Product Details

Immunogen:	genetic immunisation with cDNA encoding human EphA2
Clone:	Kalpha-5H5
Isotype:	IgG1
Specificity:	Anti-human EphA2
Purification:	Protein G

Target Details

Target:	EPH Receptor A2 (EPHA2)
Alternative Name:	EPHA2 (EPHA2 Products)
Background:	EphA2 (Ephrin receptor tyrosine kinase A2) belongs to the Ephrin tyrosine receptor familiy, the largest receptor tyrosine kinase family of transmembrane proteins. It encodes a 130 kDA

Target Details

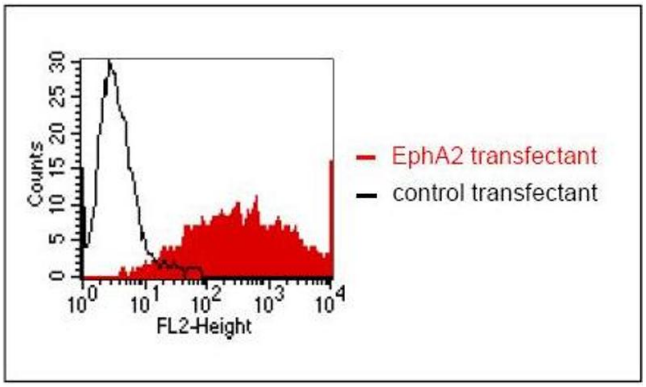
	transmembrane protein which is primarily found in adult human epithelial cells. Eph receptors and their ephrin ligands are important mediators of cell-cell communication and play roles in embryonic patterning, neuronal targeting, and vascular development during normal embryogenesis. The Eph family of 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.
UniProt:	P29317
Pathways:	RTK Signaling

Application Details

Application Notes:	Flow cytometry: 1.2 µg/10^6 cells Immunofluorescence: 1 µg/10^6 cells CELISA: 1:200 - 1:400 For each application a titration should be performed to determine the optimal concentration.
Comment:	Synonyms: Eph receptor tyrosine kinase A2
Restrictions:	For Research Use only

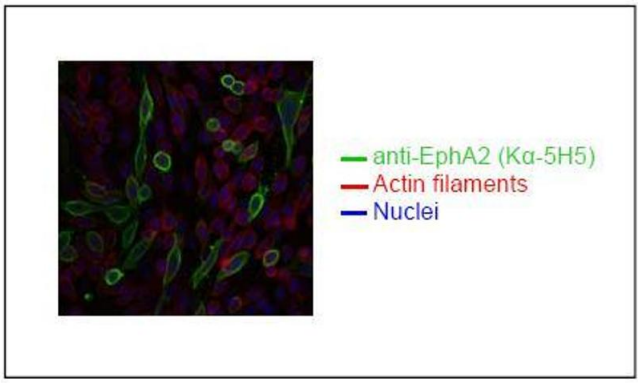
Handling

Concentration:	2 mg/mL
Buffer:	PBS, pH 7.2
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C
Storage Comment:	short term: 2 °C - 8 °C, long term: -20 °C



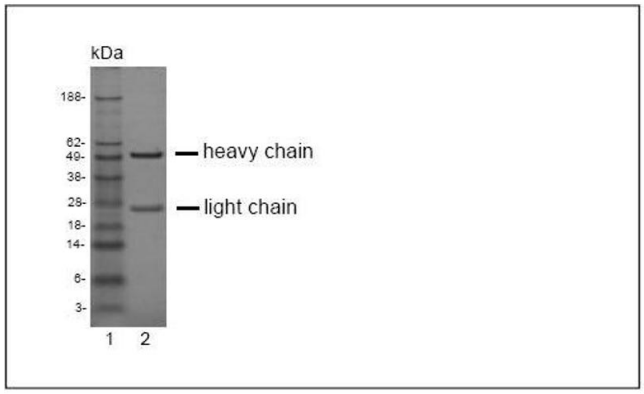
Flow Cytometry

Image 1. FACS analysis of BOSC23 cells using Kalpha-5H5. BOSC23 cells were transiently trans-fected with an expression vector encoding either EphA2(red curve) or an irrelevant protein (control transfectant).Binding of Kalpha-5H5 was detected with a PE-conjugatedsecondary antibody. A positive signal was obtained onlywith EphA2 transfected cells.



Immunofluorescence

Image 2. Spectral Confocal Microscopy of CHO cells using K?-5H5. 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



Western Blotting

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

Please check the product details page for more images. Overall 6 images are available for ABIN179724.