Product datasheet

Anti-EPHA2 Antibody

Catalog Number: *A00578*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-EPHA2 Antibody
Gene Name	EPHA2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, FCM, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human Eph receptor A2 recombinant protein (Position: M851-N970). Human Eph receptor A2 shares 96.7% and 97.5% amino acid (aa) sequence identity with mouse and rat Eph receptor A2, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	125 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

EPHA2(ephrin type-A receptor 2) also known as ECK, is a protein that in humans is encoded by the EPHA2 gene. This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. By somatic cell hybrid analysis and fluorescence in situ hybridization, the EPHA2 gene is mapped to chromosome 1p36.1. EPHA2 was readily detectable in human lens fiber cells using immunoblot and immunohistochemistry. EGFR and EPHA2 mediated HCV entry by regulating CD81 -claudin-1 (CLDN1) coreceptor associations and viral glycoprotein-dependent membrane fusion.

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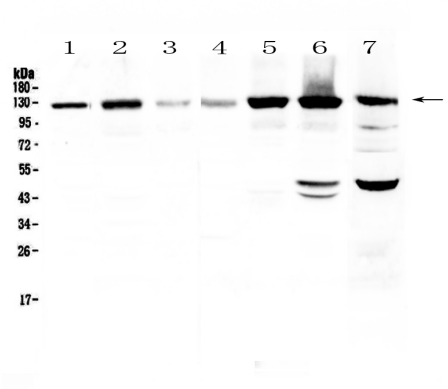
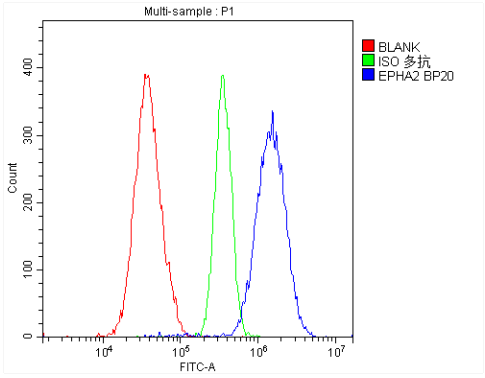
Reference

Anti-EPHA2 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of EPHA2 using anti-EPHA2 antibody (A00578). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human U-87MG whole cell lysates,
Lane 3: human SHG-44 whole cell lysates,
Lane 4: human COLO-320 whole cell lysates,
Lane 5: human SK-OV-3 whole cell lysates,
Lane 6: human A549 whole cell lysates,
Lane 7: mouse HEPA1-6 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-EPHA2 antigen affinity purified polyclonal antibody (A00578) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for EPHA2 at approximately 125 kDa. The expected band size for EPHA2 is at 108 kDa.



Flow Cytometry analysis of A549 cells using anti-EPHA2 antibody (A00578).
Overlay histogram showing A549 cells stained with A00578 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-EPHA2 Antibody (A00578) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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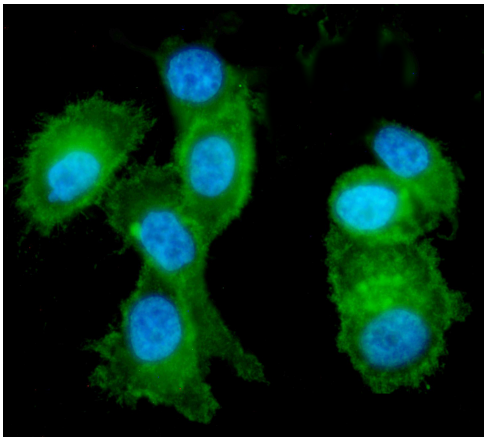

IF analysis of EPHA2 using anti-EPHA2 antibody (A00578).
EPHA2 was detected in an immunocytochemical section of PC-3 cells. The section was incubated with rabbit anti-EPHA2 Antibody (A00578) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).