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Datasheet for ABIN5693218

anti-EPH Receptor A2 antibody (AA 851-970)

1 Image

Overview

Quantity:	100 µg
Target:	EPH Receptor A2 (EPHA2)
Binding Specificity:	AA 851-970
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human Eph receptor A2 recombinant protein (Position: M851-N970).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Eph receptor A2 detection. Tested with WB, Direct ELISA in Human, Mouse, Rat.

Target Details

Target:	EPH Receptor A2 (EPHA2)
Alternative Name:	EPHA2 (EPHA2 Products)
Background:	Synonyms: Ephrin type-A receptor 2, Epithelial cell kinase, Tyrosine-protein kinase receptor ECK, EPHA2, ECK Tissue Specificity: Expressed in brain and glioma tissue and glioma cell lines (at protein level).

Target Details

Expressed most highly in tissues that contain a high proportion of epithelial cells, e.g. skin, intestine, lung, and ovary.

Background: EPHA2(ephryn 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 ephryn 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.

UniProt: [P29317](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot.
Application Details: Western blot, 0.1-0.5 µg/mL
Direct ELISA, 0.1-0.5 µg/mL

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

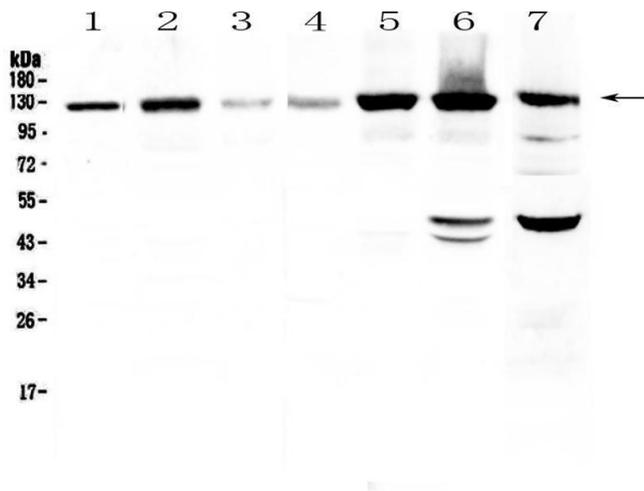
Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot analysis of Eph receptor A2 using anti-Eph receptor A2 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HeLa cell lysate, Lane 2: human U-87MG cell lysate, Lane 3: human SHG-44 cell lysate, Lane 4: human COLO-320 cell lysate, Lane 5: human SK-OV-3 cell lysate, Lane 6: human A549 cell lysate, Lane 7: mouse HEPA1-6 cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Eph receptor A2 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Eph receptor A2 at approximately 125KD. The expected band size for Eph receptor A2 is at 108KD.