

Rabbit anti-Human Eph receptor A3/EPHA3 Polyclonal Antibody | anti-EPHA3 antibody

Anti-Eph receptor A3/EPHA3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126266	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

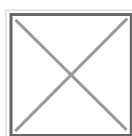
PRODUCT SYNONYMS

Eph receptor A3/EPHA3; Polyclonal Antibody; Anti-Eph receptor A3/EPHA3 Antibody Picoband; anti-EPHA3 antibody

PRODUCT SPECIFICATIONS

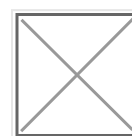
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-EPHA3 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Eph receptor A3/EPHA3 recombinant protein (Position: D59-A514).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of PC-3 cells using anti-Eph Receptor A3/EPHA3 antibody (AAA126266). Overlay histogram showing PC-3 cells stained with AAA126266 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Eph Receptor A3/EPHA3 Antibody (AAA126266, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 3. IF analysis of Eph Receptor A3/EPHA3 using anti-Eph Receptor A3/EPHA3 antibody (AAA126266). Eph Receptor A3/EPHA3 was detected in an immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Eph Receptor A3/EPHA3 Antibody (AAA126266) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Eph Receptor A3/EPHA3 using anti-Eph Receptor A3/EPHA3 antibody (AAA126266). Eph Receptor A3/EPHA3 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Eph Receptor A3/EPHA3 Antibody (AAA126266) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Eph Receptor A3/EPHA3 using anti-Eph Receptor A3/EPHA3 antibody (AAA126266). 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 30 ug of sample under reducing conditions. Lane 1: human MOLT-4 whole cell lysates, Lane 2: human placenta tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 A3/EPHA3 antigen affinity purified polyclonal antibody (#AAA126266) at 0.5 ug/mL overnight at 4 degree 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Eph Receptor A3/EPHA3 at approximately 135 kDa. The expected band size for Eph Receptor A3/EPHA3 is at 110 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHA3 antibody	Ephrin Receptor EphA3, is also known as human embryo kinase(HEK) or Eph-like tyrosine kinase1(ETK1). Kinases that phosphorylate proteins on tyrosine residues(protein tyrosine kinases; PTKs), such as EPHA3, form a structurally related group of molecules that exhibit functional diversity. Genetic alterations that lead to the inappropriate activation or expression of PTKs may be oncogenic. Many growth factor receptors are PTKs, e.g., the receptors for epidermal growth factor(EGFR), platelet-derived growth factor(PDGFR1;PDGFR2), colony-stimulating factor-1(CSF1R), and stem cell growth factor. The EPHA3 gene is mapped to 3p11.2. Sequence comparison with other PTKs showed a high degree of homology with members of the EPH and ELK(EPHB1) families of receptor tyrosine kinases. Within axial nerves, establishment of discrete afferent and efferent pathways depends on coordinate signaling between coextending sensory and motor projections.
Product Categories/Family for anti-EPHA3 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361241
NCBI GeneID	2042
NCBI Accession #	NP_005224.2
NCBI GenBank Nucleotide #	NM_005233.5
UniProt Accession #	P29320 ; Q9H2V3 ; Q9H2V4
Molecular Weight	110,131 Da
NCBI Official Full Name	ephrin type-A receptor 3 isoform a
NCBI Official Synonym Full Names	EPH receptor A3
NCBI Official Symbol	EPHA3
NCBI Official Synonym Symbols	EK4; ETK; HEK; ETK1; HEK4; TYRO4
NCBI Protein Information	ephrin type-A receptor 3; EPH-like kinase 4; human embryo kinase 1; eph-like tyrosine kinase 1; TYRO4 protein tyrosine kinase; tyrosine-protein kinase receptor ETK1
UniProt Protein Name	Ephrin type-A receptor 3
UniProt Gene Name	EPHA3
UniProt Synonym Gene Names	ETK; ETK1; HEK; TYRO4; EK4; HEK4; Human embryo kinase
UniProt Entry Name	EPHA3_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/polyclonal/eph-receptor-a3-epha3-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/126266>