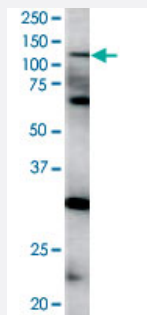


EPHA4 polyclonal antibody

Catalog # PAB3007

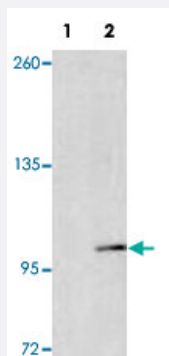
Size 400 uL

Applications



Western Blot (Cell lysate)

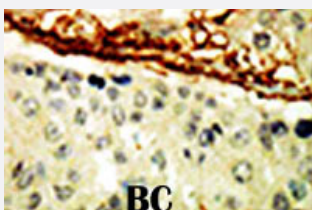
Western blot analysis of EPHA4 polyclonal antibody (Cat # PAB3007) in HeLa cell lysate. EPHA4 (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western Blot (Transfected lysate)

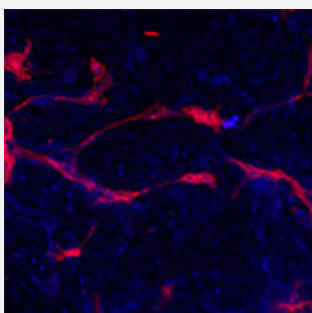
Western blot analysis of EPHA4 (arrow) using EPHA4 polyclonal antibody (Cat # PAB3007).

293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EPHA4 gene (Lane 2).



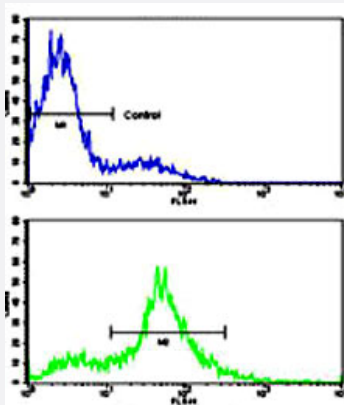
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with EPHA4 polyclonal antibody (Cat # PAB3007), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.



Immunofluorescence

Methanol/Acetone fixed human stem cell is used in IF to detect EPHA4 (blue) and endothelial Lectin (red). Data kindly provided by Dr. Weis from Cheresch Lab, UCSD.



Flow Cytometry

Flow cytometric analysis of CEM cells using EPHA4 polyclonal antibody (Cat # PAB3007)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EPHA4.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 40-70 at N-terminus of human EPHA4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Flow Cytometry(1:10-1:50) Immunofluorescence (1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of EPHA4 polyclonal antibody (Cat # PAB3007) in HeLa cell lysate. EPHA4 (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

- Western Blot (Transfected lysate)

Western blot analysis of EPHA4 (arrow) using EPHA4 polyclonal antibody (Cat # PAB3007).
293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EPHA4 gene (Lane 2).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Gene Info — EPHA4

Entrez GeneID [2043](#)

Protein Accession# [P54764](#)

Gene Name EPHA4

Gene Alias HEK8, SEK, TYRO1

Gene Description EPH receptor A4

Omim ID [602188](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. 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. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. [provided by RefSeq]

Other Designations

OTTHUMP00000164185|TYRO1 protein tyrosine kinase|ephrin receptor EphA4|ephrin type-A receptor 4|receptor protein-tyrosine kinase HEK8|tyrosine-protein kinase receptor SEK

Publication Reference

- [Eph/Ephrin Profiling in Human Breast Cancer Reveals Significant Associations between Expression Level and Clinical Outcome.](#)

Brantley-Sieders DM, Jiang A, Sarma K, Badu-Nkansah A, Walter DL, Shyr Y, Chen J.

PLoS One 2011 Sep; 6(9):e24426.

Application: IHC-P, Human, Mouse, Human ductal carcinoma, Mouse kidney tissues

- [Roles of Eph receptors and ephrins in segmental patterning.](#)

Xu Q, Mellitzer G, Wilkinson DG.

Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences 2000 Jul; 355(1399):993.

- [Eph receptors and ephrins: effectors of morphogenesis.](#)

Holder N, Klein R.

Development 1999 May; 126(10):2033.

Pathway

- [Axon guidance](#)

Disease

- [Alzheimer Disease](#)
- [Cognition Disorders](#)
- [Genetic Predisposition to Disease](#)
- [Parkinson disease](#)