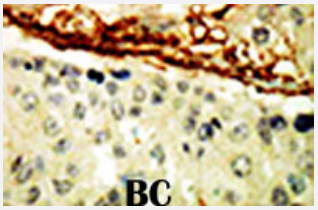
EPHA4 polyclonal antibody

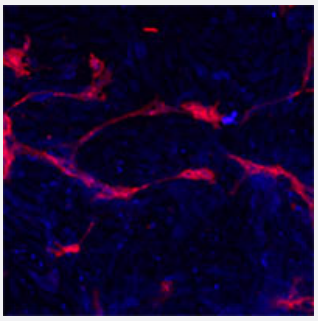
Catalog # PAB3007 Size 400 uL

Applications



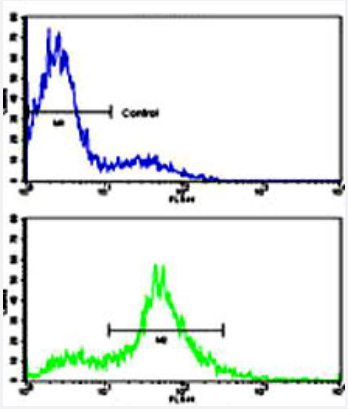
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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

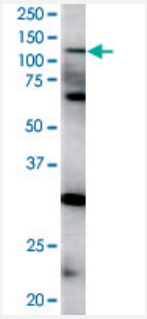
Methanol/Acetone fixed human stem cell is used in IF to detect EPHA4 (blue) and endothelial Lectin (red) . Data kindly provided by Dr. Weis from Cheresh Lab, UCSD.



Flow Cytometry

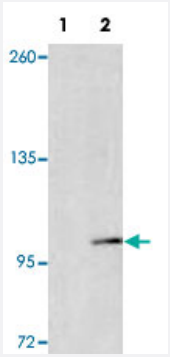
Flow cytometric analysis of CEM cells using EPHA4 polyclonal antibody (Cat # PAB3007)(bottom histogram) compared to a negative control cell (top histogram).
FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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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).

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 hum an 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.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- 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 Cheresh 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).
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- 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).

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

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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 th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d 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 rec eptor 4|receptor protein-tyrosine kinase HEK8|tyrosine-protein kinase receptor SEK

Publication Reference

- Functionalized thermosensitive hydrogel combined with tendon stem/progenitor cells as injectable cell delivery carrier for tendon tissue engineering.

  Heyong Yin, Zexing Yan, Richard J Bauer, Jiang Peng, Matthias Schieker, Michael Nerlich, Denitsa Docheva

  Biomed Mater 2018 Mar; 13(3):34107.

- Identification of IGFBP2 and IGFBP3 As Compensatory Biomarkers for CA19-9 in Early-Stage Pancreatic Cancer Using a Combination of Antibody-Based and LC-MS/MS-Based Proteomics.

  Toshihiro Yoneyama, Sumio Ohtsuki, Kazufumi Honda, Makoto Kobayashi, Motoki Iwasaki, Yasuo Uchida, Takuji Okusaka, Shoji Nakamori, Masashi Shimahara, Takaaki Ueno, Akihiko Tsuchida, Naohiro Sata, Tatsuya Ioka, Yohichi Yasunami, Tomoo Kosuge, Takashi Kaneda, Takao Kato, Kazuhiro Yagihara, Shigeyuki Fujita, Wilber Huang, Tesshi Yamada, Masanori Tachikawa, Tetsuya Terasaki.

  PloS one 2016 Aug; 11(8):e0161013.

  Application: RPPA (Reverse-phase protein array), Human, Plasma

- 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.

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Pathway

- Axon guidance

Disease

- Alzheimer Disease
- Cognition Disorders
- Genetic Predisposition to Disease
- Parkinson disease

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