EPHA3 polyclonal antibody

Catalog # PAB3005 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of EPHA3 polyclonal antibody (Cat # PAB3005) in NCI-H460 (Land 1), 293 (Land 2) cell line lysates (35 ug/lane). EPHA3 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with EPHA3 polyclonal antibody (Cat # PAB3005), which was peroxidaseconjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification	
Product Description	Rabbit polyclonal antibody raised against synthetic peptide of EPHA3.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human EPHA3.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification



Product Information

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) 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 shoul d be handled by trained staff only.

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Gene Info — EPHA3

Entrez GenelD	2042
Protein Accession#	<u>P29320</u>
Gene Name	EPHA3
Gene Alias	ETK, ETK1, HEK, HEK4, TYRO4
Gene Description	EPH receptor A3
Omim ID	<u>179611</u>
Gene Ontology	Hyperlink

W Apnova	Product Information
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. This gene encodes a protein that binds ephrin-A ligands. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq
Other Designations	TYRO4 protein tyrosine kinase eph-like tyrosine kinase 1 ephrin receptor EphA3 human embryo ki nase 1

Publication Reference

Identification of cell surface targets through meta-analysis of microarray data.

Haeberle H, Dudley JT, Liu JT, Butte AJ, Contag CH. Neoplasia 2012 Jul; 14(7):666.

Application: IHC-P, Human, Human medulloblastoma, cerebellum

 Identification of a tumor-specific shared antigen derived from an Eph receptor and presented to CD4 T cells on HLA class II molecules.

Chiari R, Hames G, Stroobant V, Texier C, Maillere B, Boon T, Coulie PG. Cancer Research 2000 Sep; 60(17):4855.

 Molecular cloning of HEK, the gene encoding a receptor tyrosine kinase expressed by human lymphoid tumor cell lines.

Wicks IP, Wilkinson D, Salvaris E, Boyd AW. PNAS 1992 Mar; 89(5):1611.

Application: IF, Monkey, COS cells

 Isolation and characterization of a novel receptor-type protein tyrosine kinase (hek) from a human pre-B cell line.

Boyd AW, Ward LD, Wicks IP, Simpson RJ, Salvaris E, Wilks A, Welch K, Loudovaris M, Rockman S, Busmanis I. The Journal of Biological Chemistry 1992 Feb; 267(5):3262.

Pathway

• Axon guidance



Disease

- Genetic Predisposition to Disease
- Pancreatic cancer
- Pancreatic Neoplasms