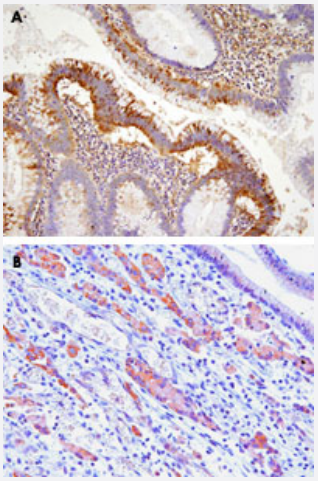
EPHA2 monoclonal antibody, clone 3D7

Catalog # MAB1769 Size 100 uL

Applications



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

Immunohistochemistry of human colon (A) and gastric cancer tissue (B) were incubated with EPHA2 monoclonal antibody, clone 3D7 (Cat # MAB1769) (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).

Western Blot (Transfected lysate)

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: EphA2 extracellular domain transfected 293T cell lysate, Lane 3: EphA2 cytoplasmic domain transfected 293T cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant EPHA2.
Immunogen	Recombinant protein corresponding to amino acids 559-976 of human EPHA2.
Host	Mouse
Reactivity	Human
Form	Liquid

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Purification	Protein G purification
Isotype	IgG2b, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°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.

Applications

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

  Immunohistochemistry of human colon (A) and gastric cancer tissue (B) were incubated with EPHA2 monoclonal antibody, clone 3D7 (Cat # MAB1769) (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: 293T cell lysate, Lane 2: EphA2 extracellular domain transfected 293T cell lysate, Lane 3: EphA2 cytoplasmic domain transfected 293T cell lysate.

Gene Info — EPHA2

Entrez GeneID	1969
Protein Accession#	P29317
Gene Name	EPHA2
Gene Alias	ECK
Gene Description	EPH receptor A2
Omim ID	176946

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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 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. [provided by RefSeq
Other Designations	ephrin receptor EphA2|epithelial cell receptor protein tyrosine kinase|protein tyrosine kinase|rece ptor protein tyrosine kinase regulated by p53 and E2F-1|soluble EPHA2 variant 1

Publication Reference

- Locoregional delivery of CAR T cells to the cerebrospinal fluid for treatment of metastatic medulloblastoma and ependymoma.

  Laura K Donovan, Alberto Delaidelli, Sujith K Joseph, Kevin Bielamowicz, Kristen Fousek, Borja L Holgado, Alex Manno, Dilakshan Srikanthan, Ahmed Z Gad, Randy Van Ommeren, David Przelicki, Cory Richman, Vijay Ramaswamy, Craig Daniels, Jonelle G Pallota, Tajana Douglas, Alyssa C M Joynt, Joonas Haapasalo, Carolina Nor, Maria C Vladoiu, Claudia M Kuzan-Fischer, Livia Garzia, Stephen C Mack, Srinidhi Varadharajan, Matthew L Baker, Liam Hendrikse, Michelle Ly, Kaitlin Kharas, Polina Balin, Xiaochong

  Nature Medicine 2020 May; 26(5):720.

  Application: IHC-P, Human, Human tissue microarrays

- EphA2 receptor tyrosine kinase as a promising target for cancer therapeutics.

  Ireton RC, Chen J.

  Current Cancer Drug Targets 2005 May; 5(3):149.

  Application: IHC-P, WB, Human, Breast cancer, Colon cancer, Prostate cancer, Lung cancer

- Diverse roles for the Eph family of receptor tyrosine kinases in carcinogenesis.

  Nakamoto M, Bergemann AD.

  Microscopy Research and Technique 2002 Oct; 59(1):58.

Pathway

- Axon guidance

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Disease

- Cataract
- Genetic Predisposition to Disease
- Hearing Loss

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