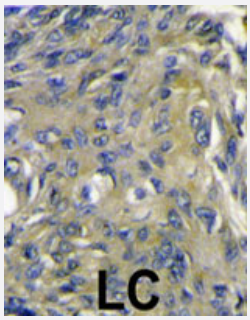
FIGF polyclonal antibody

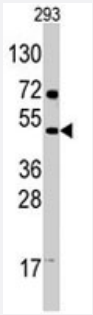
Catalog # PAB4879 Size 400 uL

Applications



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

Formalin-fixed and paraffin-embedded human lung carcinoma reacted with FIGF polyclonal antibody (Cat # PAB4879) , 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.



Western Blot (Cell lysate)

Western blot analysis of FIGF polyclonal antibody (Cat # PAB4879) in 293 cell lysate. FIGF (arrow) was detected using the purified polyclonal antibody.

Specification

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

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Recommend Usage	ELISA (1:1000) Western Blot (1:250-500) 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.

Applications

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

  Formalin-fixed and paraffin-embedded human lung carcinoma reacted with FIGF polyclonal antibody (Cat # PAB4879) , 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.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of FIGF polyclonal antibody (Cat # PAB4879) in 293 cell lysate. FIGF (arrow) was detected using the purified polyclonal antibody.

Gene Info — FIGF

Entrez GeneID	2277
Protein Accession#	NP_004460;O43915
Gene Name	FIGF
Gene Alias	VEGF-D, VEGFD
Gene Description	c-fos induced growth factor (vascular endothelial growth factor D)
Omim ID	300091
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor C. [provided by RefSeq
Other Designations	OTTHUMP00000022960|vascular endothelial growth factor D

Publication Reference

- Sulfatase 2 facilitates lymphangiogenesis in breast cancer by regulating VEGF-D.

  Chenfang Zhu, Xiaoliang Qi, Xin Zhou, Xin Nie, Yan Gu

  Oncol Rep 2016 Dec; 36(6):3161-3171.

  Application: WB

- Sulfatase 2 promotes breast cancer progression through regulating some tumor-related factors.

  Zhu C, He L, Zhou X, Nie X, Gu Y.

  Oncology Reports 2016 Mar; 35(3):1318.

  Application: WB, Human, HBL-100, MCF-7, MDA-MB-231, MDA-MB-468, BT-549 cells

- Metastasis via Peritumoral Lymphatic Dilation in Oral Squamous Cell Carcinoma.

  Kim HS, Park YW.

  Maxillofacial Plastic and Reconstructive Surgery 2014 May; 36(3):85.

  Application: IHC-P, Human, Oral squamous cell carcinoma

- Plasmin activates the lymphangiogenic growth factors VEGF-C and VEGF-D.

  McColl BK, Baldwin ME, Roufail S, Freeman C, Moritz RL, Simpson RJ, Alitalo K, Stacker SA, Achen MG.

  The Journal of Experimental Medicine 2003 Sep; 198(6):863.

  Application: WB, Recombinant protein

- Beta-catenin inversely regulates vascular endothelial growth factor-D mRNA stability.

  Orlandini M, Semboloni S, Oliviero S.

  The Journal of Biological Chemistry 2003 Aug; 278(45):44650.

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- VEGF-D is the strongest angiogenic and lymphangiogenic effector among VEGFs delivered into skeletal muscle via adenoviruses.

  Rissanen TT, Markkanen JE, Gruchala M, Heikura T, Puranen A, Kettunen MI, Kholova I, Kauppinen RA, Achen MG, Stacker SA, Alitalo K, Yla-Herttuala S.

  Circulation Research 2003 May; 92(10):1098.

Pathway

- Bladder cancer
- Cytokine-cytokine receptor interaction
- Focal adhesion
- mTOR signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Renal cell carcinoma

Disease

- Chorioamnionitis
- Fetal Membranes
- Genetic Predisposition to Disease
- Lymphedema
- Obstetric Labor
- Pre-Eclampsia
- Premature Birth
- Thyroid Neoplasms

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