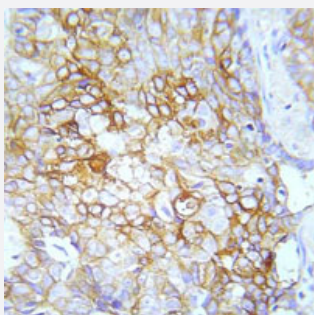


FGFR1 (phospho Y154) polyclonal antibody

Catalog # PAB16969 Size 100 ug

Applications



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

Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma tissue using FGFR1 (phospho Tyr154) polyclonal antibody (Cat # PAB16969).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of FGFR1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding Y154 of human FGFR1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of FGFR1 only when phosphorylated at tyrosine 154.
Form	Liquid
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:4000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C for three months. 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
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
Immunohistochemical analysis of paraffin-embedded human lung adenocarcinoma tissue using FGFR1 (phospho Tyr154) polyclonal antibody (Cat # PAB16969).
- Enzyme-linked Immunoabsorbent Assay

Gene Info — FGFR1

Entrez GeneID [2260](#)

Protein Accession# [P11362](#)

Gene Name FGFR1

Gene Alias BFGFR, CD331, CEK, FGFBR, FLG, FLJ99988, FLT2, HBGFR, KAL2, N-SAM

Gene Description fibroblast growth factor receptor 1

Omim ID [101600](#) [123150](#) [136350](#) [147950](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq]

Other Designations

FMS-like tyrosine kinase 2|OTTHUMP00000190874|OTTHUMP00000190878|OTTHUMP00000190879|OTTHUMP00000190881|basic fibroblast growth factor receptor 1|fms-related tyrosine kinase 2|fms-related tyrosine kinase-2|heparin-binding growth factor receptor|hydroxyaryl

Publication Reference

- [Distinct Response of Circulating microRNAs to the Treatment of Pancreatic Cancer Xenografts with FGFR and ALK Kinase Inhibitors.](#)

Ivana Peran, Eveline E Vietsch, Gai Yan, Anna T Riegel, Anton Wellstein.

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Application: IHC-P, Human, COLO357PL cells

- [Synergistic anti-angiogenic treatment effects by dual FGFR1 and VEGFR1 inhibition in FGFR1-amplified breast cancer.](#)

Golfmann K, Meder L, Koker M, Volz C, Borchmann S, Tharun L, Dietlein F, Malchers F, Florin A, Büttner R, Rosen N, Rodrik-Outmezguine V, Hallek M, Ullrich RT.

Oncogene 2018 Jul; [Epub].

Application: IHC-P, Human, Breast tumors

- [Fibroblast growth factor receptor 1 gene amplification in pancreatic ductal adenocarcinoma.](#)

Lehnen NC, von Massenhausen A, Kalthoff H, Zhou H, Glowka T, Schutte U, Holler T, Riesner K, Boehm D, Merkelbach-Bruse S, Kirfel J, Perner S, Gutgemann I.

Histopathology 2013 Aug; 63(2):157.

Application: IHC-P, Human, Pancreatic

- [Signaling initiated by overexpression of the fibroblast growth factor receptor-1 investigated by mass spectrometry.](#)

Hinsby AM, Olsen JV, Bennett KL, Mann M.

Molecular & Cellular Proteomics 2003 Jan; 2(1):29.

- [The Shb adaptor protein binds to tyrosine 766 in the FGFR-1 and regulates the Ras/MEK/MAPK pathway via FRS2 phosphorylation in endothelial cells.](#)

Cross MJ, Lu L, Magnusson P, Nyqvist D, Holmqvist K, Welsh M, Claesson-Welsh L.

Molecular Biology of the Cell 2002 Aug; 13(8):2881.

- [Fibroblast growth factors, their receptors and signaling.](#)

Powers CJ, McLeskey SW, Wellstein A.

Endocrine-Related Cancer 2000 Sep; 7(3):165.

Pathway

- [Adherens junction](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Abnormalities](#)
- [Acrocephalosyndactylia](#)
- [Alzheimer disease](#)
- [Amenorrhea](#)
- [Anodontia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Chromosome Disorders](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Craniofacial Dysostosis](#)
- [Craniosynostoses](#)
- [Diabetes Complications](#)

- [Fractures](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Hypogonadism](#)
- [Kallmann Syndrome](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Sleep Apnea](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)