

Mouse Fgfr1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14840b

Specification

Mouse Fgfr1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P16092
Other Accession	NP_001073378.1 , NP_001073377.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	91981
Antigen Region	756-784

Mouse Fgfr1 Antibody (C-term) - Additional Information

Gene ID 14182

Other Names

Fibroblast growth factor receptor 1, FGFR-1, bFGF-R-1, Basic fibroblast growth factor receptor 1, MFR, Proto-oncogene c-Fgr, CD331, Fgfr1, Flg

Target/Specificity

This Mouse Fgfr1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 756-784 amino acids from the C-terminal region of mouse Fgfr1.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Fgfr1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Fgfr1 Antibody (C-term) - Protein Information

Name Fgfr1

Synonyms Flg

Function Tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Nucleus. Cytoplasm, cytosol. Cytoplasmic vesicle. Note=After ligand binding, both receptor and ligand are rapidly internalized. Can translocate to the nucleus after internalization, or by translocation from the endoplasmic reticulum or Golgi apparatus to the cytosol, and from there to the nucleus [Isoform 5]: Cell membrane; Single-pass type I membrane protein

Tissue Location

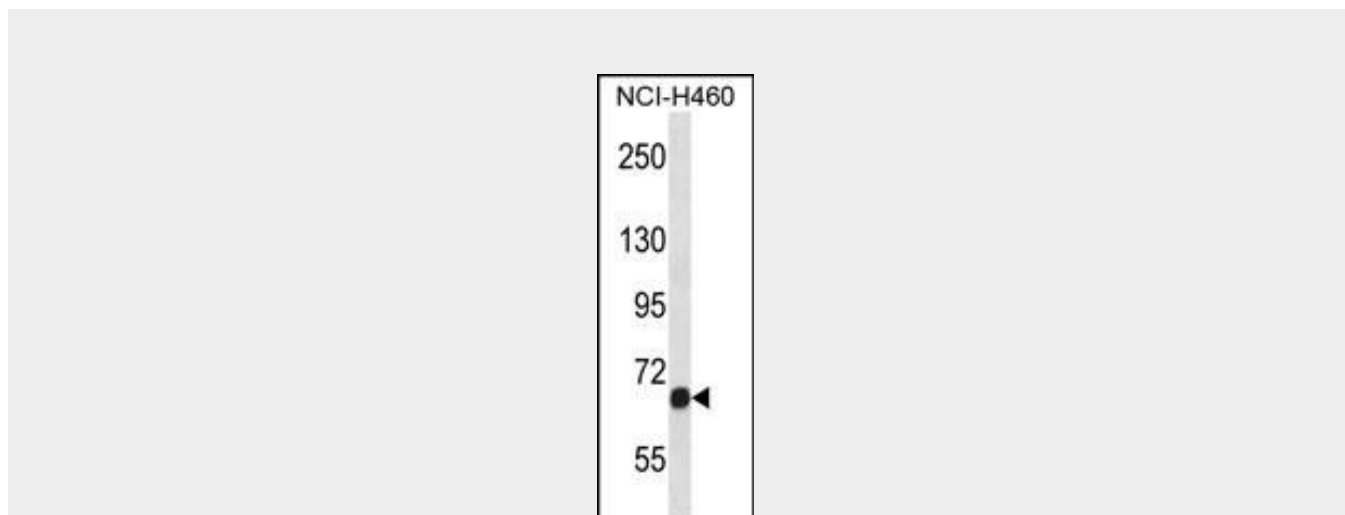
Widely expressed..

Mouse Fgfr1 Antibody (C-term) - Protocols

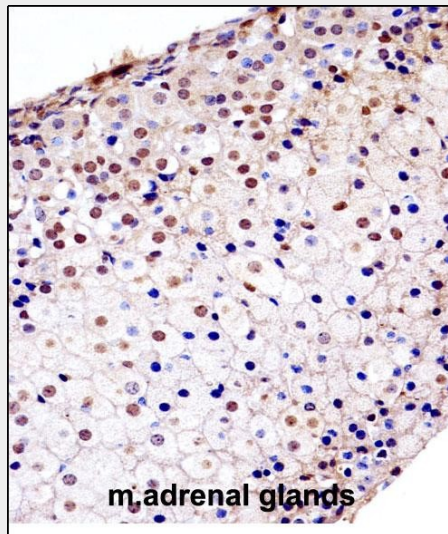
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Mouse Fgfr1 Antibody (C-term) - Images



Mouse Fgfr1 Antibody (C-term) (Cat. #AP14840b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the Fgfr1 antibody detected the Fgfr1 protein (arrow).



Mouse Fgfr1 Antibody (C-term) (AP14840b) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse adrenal glands followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Mouse Fgfr1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Mouse Fgfr1 Antibody (C-term) - Background

Receptor for basic fibroblast growth factor. A shorter form of the receptor could be a receptor for FGF1 (aFGF). Receptor for FGF23 in the presence of KL.

Mouse Fgfr1 Antibody (C-term) - References

Drogat, B., et al. Blood 116(12):2141-2151(2010)
Bowles, J., et al. Dev. Cell 19(3):440-449(2010)
Chung, W.C., et al. J. Neuroendocrinol. 22(8):944-950(2010)
Pond, A.C., et al. Cancer Res. 70(12):4868-4879(2010)
Maruyama, T., et al. Sci Signal 3 (123), RA40 (2010) :