Datasheet for ABIN1882081

anti-FGFR1 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	FGFR1
Binding Specificity:	AA 19-48, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FGFR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This FGFR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19~48 amino acids from the N-terminal region of human FGFR1.
Clone:	RB04521
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	FGFR1
Alternative Name:	FGFR1 (FGFR1 Products)

Target Details

Background:	FGFR1 is a member of the fibroblast growth factor receptor 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 can lead to Pfeiffer syndrome and Jackson-Weiss syndrome. The genomic organization of the gene is very similar to family members 2-4, encompassing 19 exons that are subject to complex alternative splicing, which allows for structural, tissue expression and ligand affinity variations among the isoforms.
Molecular Weight:	91868
NCBI Accession:	NP_001167534, NP_001167535, NP_001167536, NP_001167537, NP_001167538, NP_056934, NP_075593, NP_075594, NP_075598
UniProt:	P11362
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Sensory Perception of Sound, Stem Cell Maintenance, S100 Proteins

Application Details

Application Notes:	IF: 1:50~100. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:

Hirata, Katayama, Tsuji, Imura, Natsume, Sugahara, Kunieda, Nakamura, Otsuki: "Homeobox family Hoxc localization during murine palate formation." in: **Congenital anomalies**, Vol. 56, Issue 4, pp. 172-9, (2016) (PubMed).

Mohanan, Temburni, Kappes, Galileo: "L1CAM stimulates glioma cell motility and proliferation through the fibroblast growth factor receptor." in: **Clinical & experimental metastasis**, Vol. 30, Issue 4, pp. 507-20, (2013) (PubMed).

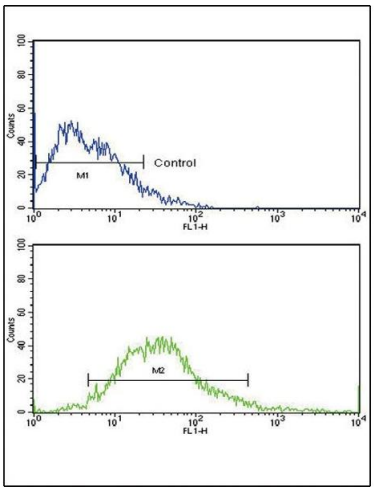
Kamura, Matsumoto, Fukushi, Fujiwara, Iida, Okada, Iwamoto: "Basic fibroblast growth factor in the bone microenvironment enhances cell motility and invasion of Ewing's sarcoma family of tumours by activating the FGFR1-PI3K-Rac1 pathway." in: **British journal of cancer**, Vol. 103, Issue 3, pp. 370-81, (2010) (PubMed).

Page, Ambady, Holmes, Vilner, Kole, Kashpur, Huntress, Vojtic, Whitton, Dominko: "Induction of stem cell gene expression in adult human fibroblasts without transgenes." in: **Cloning and stem cells**, Vol. 11, Issue 3, pp. 417-26, (2009) (PubMed).

Mondrinos, Koutzaki, Lelkes, Finck: "A tissue-engineered model of fetal distal lung tissue." in: **American journal of physiology. Lung cellular and molecular physiology**, Vol. 293, Issue 3, pp. L639-50, (2007) (PubMed).

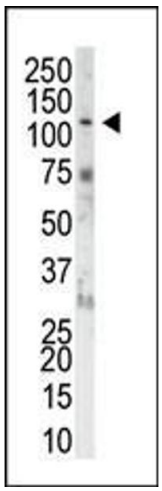
There are more publications referencing this product on: Product page

Images



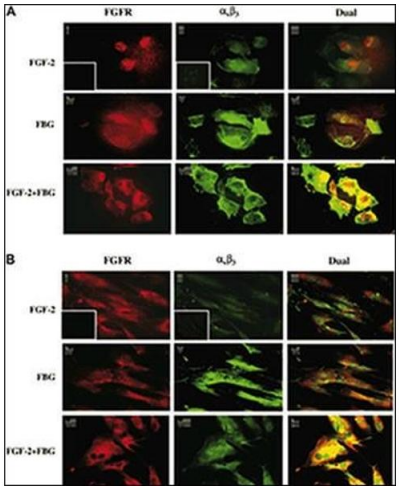
Flow Cytometry

Image 1. Flow cytometric analysis of MCF-7 cells using FGFR1 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. The anti-FGFR1 Pab (ABIN1882081 and ABIN2841755) is used in Western blot to detect FGFR1 in NIH-3T3 cell lysate.



Immunofluorescence

Image 3. Colocalization of A1B3 and FGFR1 using IF. Confluent ECs (A) or HFFs (B) were treated with or without 100 ng/mL FGF-2 in the presence or absence of 10/mL fibrinogen. After 1 hour, cells were washed and fixed with 3.7 % formaldehyde and stained using 10/mL FGFR1 and 7E3 antibody. FGFR is visualized as red fluorescence (i,iv,vii), A1B3 is visualized as green fluorescence (ii,v,viii), and colocalization of FGF-2 and fibrinogen receptors is shown as yellow fluorescence (iii,vi,ix). Insets represent the background staining for red (i) and green (ii) fluorescence. Bars represent 25.

Please check the product details page for more images. Overall 4 images are available for ABIN1882081.