

Datasheet for ABIN6243223
anti-FGFR1 antibody (AA 291-324)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	400 µL
Target:	FGFR1
Binding Specificity:	AA 291-324
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FGFR1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	This FGFR1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 291-324 amino acids from the Central region of human FGFR1.
Clone:	RB50848
Isotype:	Ig Fraction
Predicted Reactivity:	C, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	FGFR1
Alternative Name:	FGFR1 (FGFR1 Products)

Target Details

Background:	Tyrosine-protein kinase that acts as 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.
Molecular Weight:	91868
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

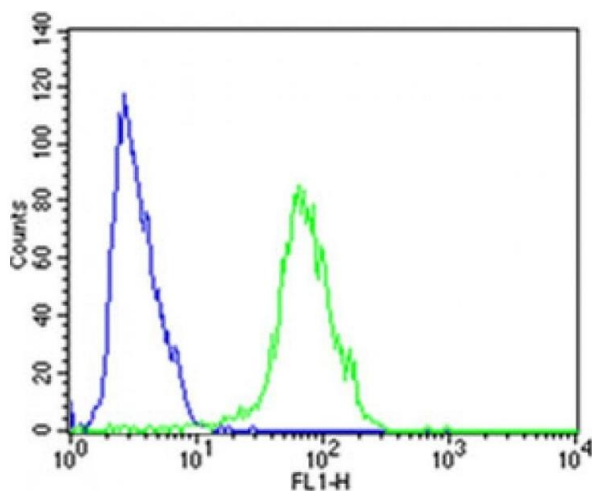
Application Details

Application Notes:	WB: 1:1000. FC: 1:25
Restrictions:	For Research Use only

Handling

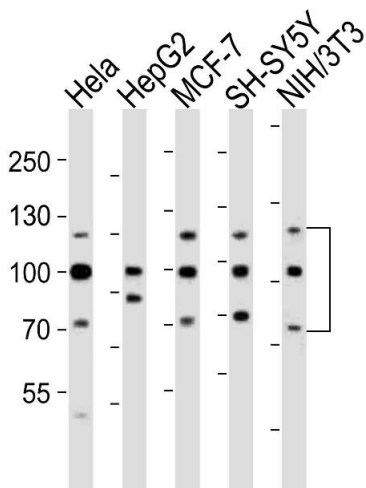
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Expiry Date:	6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

Product cited in: Martinez-Outschoorn, Trimmer, Lin, Whitaker-Menezes, Chiavarina, Zhou, Wang, Pavlides, Martinez-Cantarín, Capozza, Witkiewicz, Flomenberg, Howell, Pestell, Caro, Lisanti, Sotgia: "Autophagy in cancer associated fibroblasts promotes tumor cell survival: Role of hypoxia, HIF1 induction and NFκB activation in the tumor stromal microenvironment." in: **Cell cycle (Georgetown, Tex.)**, Vol. 9, Issue 17, pp. 3515-33, (2010) ([PubMed](#)).



Flow Cytometry

Image 1. Flow cytometric analysis of SH-SY5Y cells using FGFR1 Antibody (Center)(green, Cat(ABIN6243223 and ABIN6577702)) compared to an isotype control of rabbit IgG(blue). (ABIN6243223 and ABIN6577702) was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.



Western Blotting

Image 2. Western blot analysis of lysates from Hela, HepG2, MCF-7, SH-SY5Y, mouse NIH/3T3 cell line (from left to right), using FGFR1 Antibody (Center) (ABIN6243223 and ABIN6577702). (ABIN6243223 and ABIN6577702) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.