Datasheet for ABIN3030955

anti-FGFR3 antibody (AA 449-482)

2 Images

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Overview

Quantity:	0.4 mL
Target:	FGFR3
Binding Specificity:	AA 449-482
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FGFR3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This FGFR3 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 449-482 amino acids from the central region of mouse Fgfr3.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	FGFR3
Alternative Name:	FGFR3 (FGFR3 Products)
Background:	Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation and apoptosis. Plays an essential role in the regulation of chondrocyte differentiation, proliferation and apoptosis,

Target Details

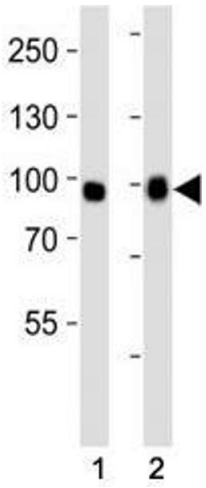
	and is required for normal skeleton development. Regulates both osteogenesis and postnatal bone mineralization by osteoblasts. Promotes apoptosis in chondrocytes, but can also promote cancer cell proliferation. Required for normal development of the inner ear. Phosphorylates PLCG1, CBL and FRS2. Ligand 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. Plays a role in the regulation of vitamin D metabolism. Mutations that lead to constitutive kinase activation or impair normal FGFR3 maturation, internalization and degradation lead to aberrant signaling. Over-expressed or constitutively activated FGFR3 promotes activation of STAT1, STAT5A and STAT5B. Plays a role in postnatal lung development.
UniProt:	Q61851
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Stem Cell Maintenance, Growth Factor Binding

Application Details

Application Notes:	Titration of the FGFR3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000
Restrictions:	For Research Use only

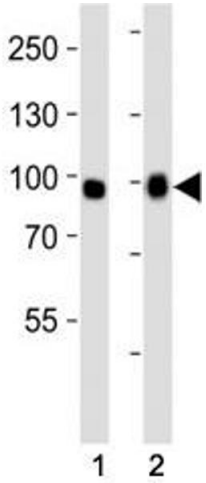
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % 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:	-20 °C
Storage Comment:	Aliquot the FGFR3 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot analysis of lysate from (1) A549 and (2) HeLa cell line using FGFR3 antibody at 1:1000. Predicted molecular weight: 87-135 kDa depending on glycosylation level.



Western Blotting

Image 2. Western blot analysis of lysate from (1) A549 and (2) HeLa cell line using FGFR3 antibody at 1:1000. Predicted molecular weight: 87-135 kDa depending on glycosylation level.