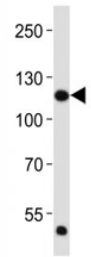
FGFR1 Antibody [clone 1440CT772.50.23] (F53032)

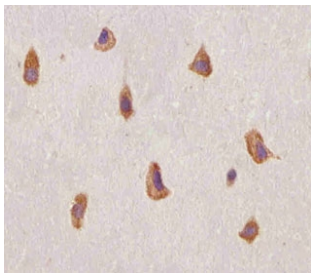
Catalog No.	Formulation	Size
F53032-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53032-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

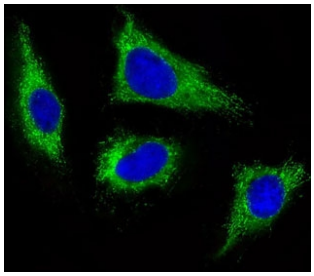
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	1440CT772.50.23
Purity	Purified
UniProt	P11362
Applications	Western Blot : 1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25
Limitations	This FGFR1 antibody is available for research use only.



Western blot analysis of lysate from HeLa cell line using FGFR1 antibody at 1:2000.
Predicted molecular weight: 75-160 kDa depending on glycosylation level.



IHC staining of FFPE human brain with FGFR1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Immunofluorescent staining of PFA-fixed human HeLa cells with FGFR1 antibody (green) and DAPI nuclear stain (blue).

Description

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.

Application Notes

Titration of the FGFR1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This FGFR1 antibody was produced from a mouse immunized with a KLH conjugated synthetic peptide between 806-842 amino acids from the C-terminal region of human FGFR1.

Storage

Aliquot the FGFR1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com

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