For Research Use Only

FGFR3 Monoclonal antibody

Catalog Number:66954-1-Ig Featured Product 8 Publications

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Basic Information

Catalog Number:
66954-1-Ig

Size:
150ul , Concentration: 1500 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG26290

GenBank Accession Number:
NM_000142

GeneID (NCBI):
2261

Full Name:
fibroblast growth factor receptor 3

Calculated MW:
87 kDa

Observed MW:
125-135 kDa

Purification Method:
Protein G purification

CloneNo.:
1F3G1

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:200-1:800
IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
Human, mouse

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LNCaP cells, L02 cells, L-929 cells, HeLa cells, HEK-293 cells, HepG2 cells, A549 cells, NCI-H1299 cells

IHC : mouse testis tissue,

IF : HepG2 cells,

Background Information

Fibroblast growth factors (FGFs) are polypeptide growth factors involved in a variety of activities including mitogenesis, angiogenesis, and wound healing (PMID: 1847508). The human FGF receptor family, a subfamily of receptor tyrosine kinases (RTKs), comprises of four family members-FGFR1, FGFR2, FGFR3 and FGFR4 (PMID: 23900974). Each receptor contains an extracellular domain with either two or three immunoglobulin-like domains, a transmembrane domain, and a cytoplasmic tyrosine kinase domain. FGFR3 binds acidic and basic fibroblast GH and plays a role in bone development and maintenance. Mutations in the FGFR3 gene lead to craniosynostosis and multiple types of skeletal dysplasia. Due to frequent mutations in certain cancers, FGFR3 gene has also been associated with tumor progression.

Notable Publications

Author	Pubmed ID	Journal	Application
Liang Kuang	31662319	Ann Rheum Dis	WB
Limin Wang	36305369	Tissue Eng Part A	IF
Fake Liao	34787070	Bioengineered	WB

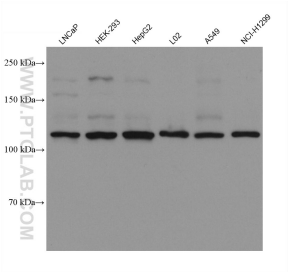
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

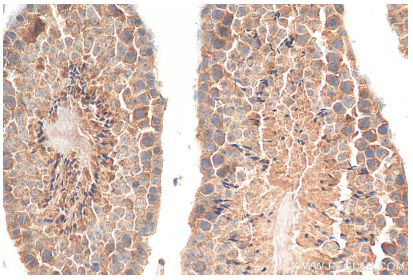
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

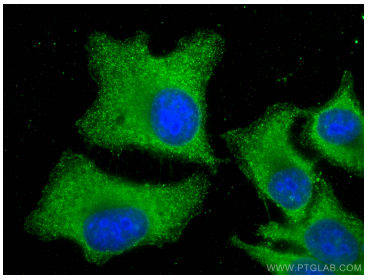
Selected Validation Data



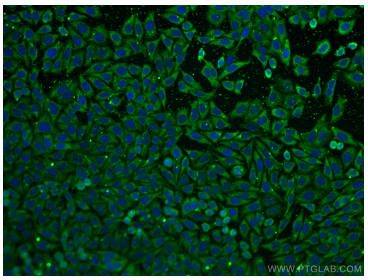
Various lysates were subjected to SDS PAGE followed by western blot with 66954-1-Ig (FGFR3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66954-1-Ig (FGFR3 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FGFR3 antibody (66954-1-Ig, Clone: 1F3G1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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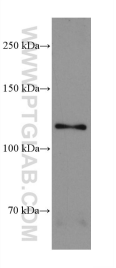

L-929 cells were subjected to SDS PAGE followed by western blot with 66954-1-Ig (FGFR3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.