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Datasheet for 600-401-BE5

FGFR3 Antibody

Overview

Description:	Anti-FGFR3 (RABBIT) Antibody - 600-401-BE5
Item No.:	600-401-BE5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	FGFR3 is a 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 (1). It is required for normal skeleton development and promotes apoptosis in chondrocytes and cancer cell proliferation. FGFR3 protein contains three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain (1,2). It is alternatively spliced to produce three isoforms that are expressed in brain, kidney and testis. Defects in FGFR3 are associated with several diseases, including achondroplasia and hypochondroplasia (3,4). Mutations in FGFR3 are also a cause of some bladder and cervical cancers (5).
Synonyms:	FGFR3 Antibody, ACH, CEK2, JTK4, CD333, HSFGFR3EX, Fibroblast growth factor receptor 3, FGFR-3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	FGFR3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-FGFR3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the C-terminus of human FGFR3.
Purity/Specificity:	Anti-FGFR3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. FGFR3 antibody is human, mouse and rat reactive. At least three isoforms of FGFR3 are known to exist; this antibody will detect all three.
Relevant Links:	• UniProtKB - P22607 • GeneID - 2261 • NCBI - NP_001156685

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-FGFR3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 88 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	User Optimized
IHC:	User Optimized
WB:	1-2 µg/mL

Formulation

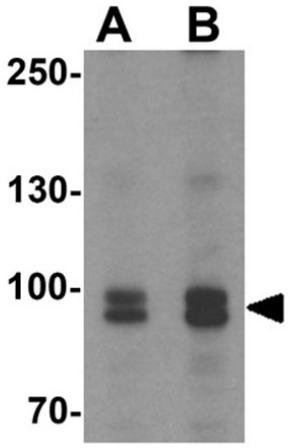
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

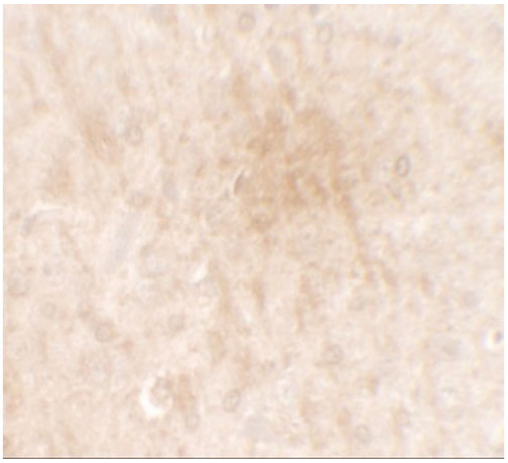
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

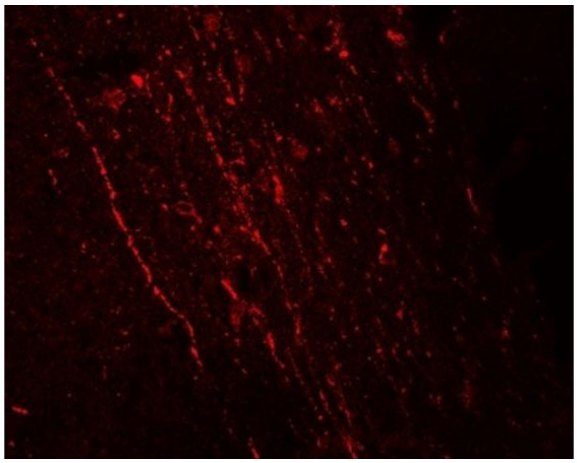
Images



Western Blot
Western blot of FGFR3.
Load: SK-N-SH cell lysate.
Primary Antibody: FGFR3 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry
Immunohistochemistry of FGFR3.
Tissue: rat brain tissue.
Primary Antibody: FGFR3 antibody at 2.5 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of FGFR3.
Tissue: rat brain tissue.
Primary Antibody: FGFR3 antibody at 20 µg/mL.

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