

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, HSFGR3EX, 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

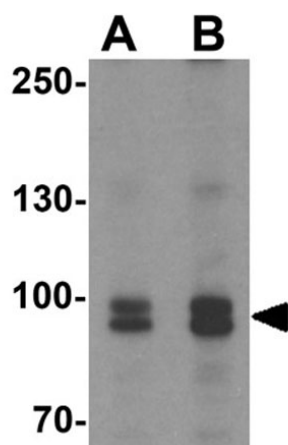
Shipping & Handling

Shipping Condition:	Wet Ice
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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

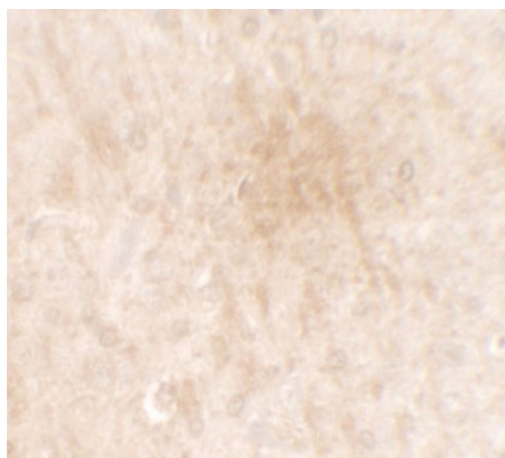


Western Blot

Western blot of FGFR3.

Load: SK-N-SH cell lysate.

Primary Antibody: FGFR3 antibody at (A) 0.5 and (B) 1 µg/mL.

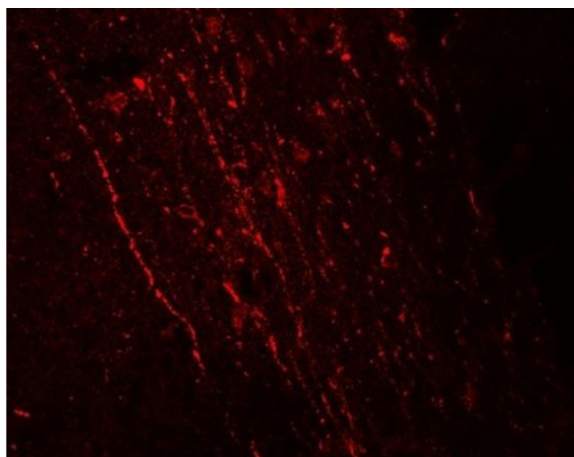


Immunohistochemistry

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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.