Product Datasheet

FGFR1 Antibody (M17A3) - BSA Free
NB100-2079

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 2

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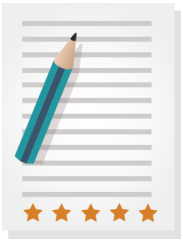
Updated 9/9/2025 v.20.1



NB100-2079

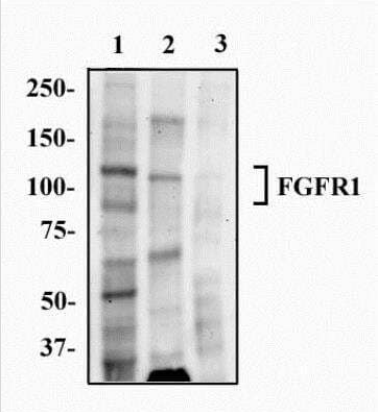
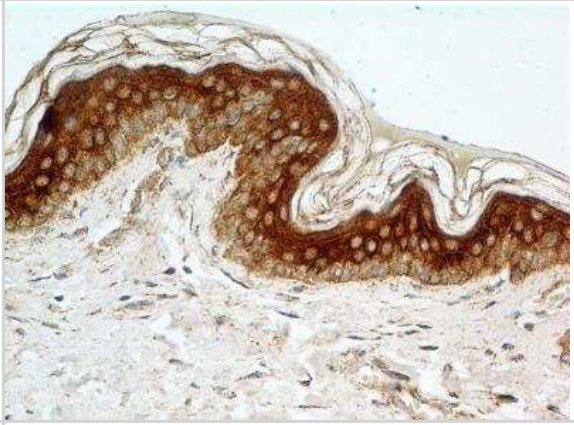
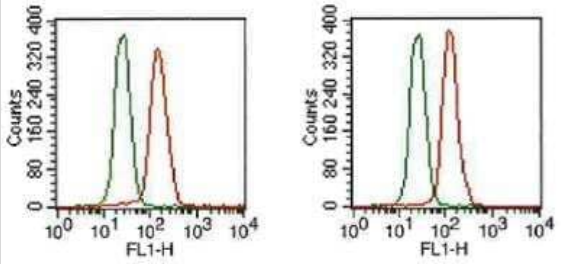
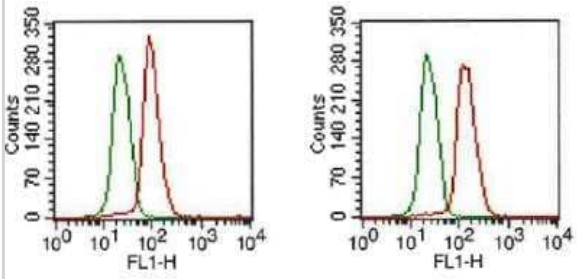
FGFR1 Antibody (M17A3) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	M17A3
Preservative	0.02% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Mouse FGFR1 Antibody (M17A3) - BSA Free (NB100-2079) is a monoclonal antibody validated for use in IHC, WB, Flow and IP. Anti-FGFR1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2260
Gene Symbol	FGFR1
Species	Human, Mouse, Rat
Specificity/Sensitivity	Reacts with beta isoform of FRFR1. Western blotting: at 1 ug/ml recognizes 10 ng recombinant bacterial, baculoviral, or native FGFr1. Immunoprecipitation: native, nuclear, recombinant, and ligand-labeled FGFr1. Immunohistochemistry: under investigation.
Immunogen	Recombinant human ectodomain of FGF R1 expressed in E. coli beginning with pro23; antigen contained NH2-terminal gly-ser-pro-gly-ile and COOH-terminal glu-phe sequences.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 2-4 ug/ml, Flow Cytometry 1:500-1:1000, Immunohistochemistry 5 ug/ml, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 5 ug/ml, CyTOF-ready
Application Notes	This antibody is Cytof ready.

Images

Western Blot: FGF R1 Antibody (M17A3) [NB100-2079] - Whole cell protein from HepG2 (lane 1), 3T3 (lane 2) and PC12 (lane 3) was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 4.0 ug/ml anti-FGFR1 in 1% milk and detected with an anti-mouse HRP secondary antibody using chemiluminescence.	
Immunohistochemistry-Paraffin: FGF R1 Antibody (M17A3) [NB100-2079] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human normal skin using mouse monoclonal FGF R1 Antibody (clone M17A3) at 5 ug/ml concentration. The keratinocytes of the epidermal layer showed a very strong membrane-cytoplasmic with relatively weak nuclear staining for FGF R1 Antibody. The stratum basale layer of keratinocytes depicted more of membrane-cytoplasmic staining for this protein.	
Flow Cytometry: FGF R1 Antibody (M17A3) [NB100-2079] - Analysis of FGF R1 in HEK293 cells (2x10^6 cells/ml) were stained with FGF R1 antibody (NB100-2079, red) at 1:1000 dilution. Detected with FITC conjugated goat anti-mouse IgG1 isotype control (green). Two distinct samples shown.	
Flow Cytometry: FGF R1 Antibody (M17A3) [NB100-2079] - Analysis of FGF R1 in MCF-7 cells (1x10^6 cells/ml) were stained with FGF R1 antibody (NB100-2079, red) at 1:1000 dilution. Detected with FITC conjugated goat anti-mouse IgG1 isotype control (green). Two distinct samples shown.	

Publications

Chen CK, Cheng R, Demeter J et al. Structured elements drive extensive circular RNA translation Molecular Cell 2021-10-01 [PMID: 34437836] (Western Blot)

Wang F, Kan M, McKeehan K et al. A homeo-interaction sequence in the ectodomain of the fibroblast growth factor receptor. J Biol Chem. 1997-09-19 [PMID: 9295338] (WB)

Procedures

Immunohistochemistry-Paraffin protocol for FGFR1 Antibody (NB100-2079)
FGFR1 Antibody (M17A3):
1. Deparaffinize the tissue sections by immersing the slides in Xylene with two changes for 10 min each. Sections should not get dried at any stage from this point.
2. Rehydrate the tissue sections by immersing the slides in decreasing grades of ethanol as follows:
a. Immerse in 100% ethanol with 2 changes for 5 minutes each
b. Immerse in 95% ethanol with 2 changes for 5 minutes each
c. Immerse in 90% ethanol for 5 minutes
d. Immerse in 70% ethanol for 5 minutes
e. Immerse in 50% ethanol for 5 minutes
f. Immerse in distilled water for 5 minutes
3. Antigen Retrieval (Microwave Method):
a. Immerse the slides in a microwave compatible tray containing 10 mM Sodium Citrate buffer (pH 6.0) with 0.05% Tween 20.
b. Boil the slides and maintain the sub-boiling temperature for 5 minutes in the microwave. Thereafter, take out the tray very carefully and cool it at room temperature (RT) for about 30 minutes.
c. Wash the slides 3 times, 3 minutes each by immersing them in TBST (Tris Buffered Saline having 0.05% Tween 20).
4. Quenching of Endogenous Peroxidase:
a. Incubate the slides in 3% hydrogen peroxide prepared in methanol for 15 minutes (at RT, in dark conditions).
b. Wash the slides in TBST 3 times, 3 minutes each.
5. Protein Blocking:
a. Incubate the sections with background sniper solution at RT for 15 minutes (Biocare Medicals, USA).
b. Wash the sections 3 times, 3 min each by immersing the slides in TBST.
6. Primary Antibody:
a. Dilute the primary antibody at 5ug/ml concentration using PBS as a diluent.
b. Incubate the sections with diluted primary antibody for 90 minutes at RT in a humidified chamber.
c. Thereafter, wash the slides 4 times, 5 minutes each with TBST.
7. Probe (Secondary Reagent):
a. Incubate with MACH 1 Mouse probe for 15 minutes at RT.
b. Incubate for 30 min at room temperature with HRP-Polymer (Biocare Medical, USA).
c. Wash the slides with TBST 4 times, 5 minutes each
8. Chromogen:
a. Mix 32ul of DAB Chromogen with 1 ml of DAB substrate buffer (Biocare Medical, USA).
a. Apply 200ul DAB mixture/section and incubate at RT in dark conditions (few seconds - 5 minutes).
b. As soon as an appropriate color develops, rinse the slides with deionized water (2-3 brief rinses).
9. Counter stain:
a. Counter stain with Hematoxylin for 30 seconds (Vector Labs, USA).
b. Wash in deionized water for 1-2 minutes to clear the extra stain.
c. Incubate the slides in bluing solution or Scott's water twice for 2 minutes each time.
10. Dehydrate the sections in increasing grades of alcohols:
a. 50% alcohol for 1 minute
b. 70% for 1 minute
c. 90% for 1 minute
d. 95% for 1 minute
e. 100% for 1 minute
f. Xylene with 2 changes for 2 minutes each
11. Mount with DPX mount and cover-slip glass (Fisher Scientific, USA), carefully not allowing any air bubbles to enter.

NOTE:- This protocol is provided as a reference tool only. Depending upon the type of tissues /tissue processing and reagents employed, the end user will need to optimize the final conditions for achieving an expected staining.

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Products Related to NB100-2079

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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