Product Datasheet

FGFR1 Antibody (M17D10) - BSA Free
NB100-2080

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: 1

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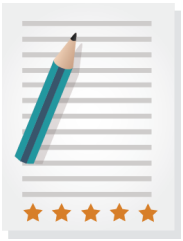
Updated 10/23/2024 v.20.1



NB100-2080

FGFR1 Antibody (M17D10) - 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	M17D10
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS

Product Description

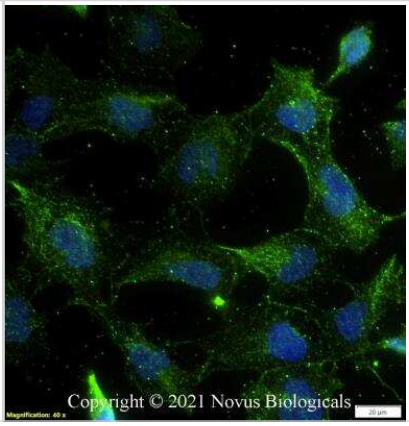
Host	Mouse
Gene ID	2260
Gene Symbol	FGFR1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 8575296). Not yet tested in other species.
Specificity/Sensitivity	Reacts with both alpha and beta isoforms.
Immunogen	Recombinant human ectodomain of FGFr1b expressed in E. coli from pro23 to his415; antigen contained NH2-terminal gly-ser-pro-gly-ile and COOH-terminal glu-phe sequences.

Product Application Details

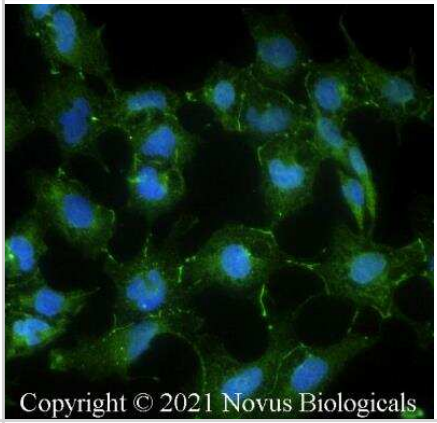
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1 ug/mL, Flow Cytometry 1:500 - 1:1000, Immunohistochemistry 5 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 5 ug/mL, CyTOF-ready
Application Notes	This antibody is CyTOF ready.

Images

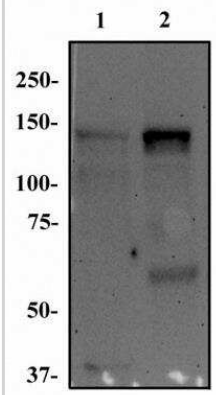
Immunocytochemistry/Immunofluorescence: FGFR1 Antibody (M17D10) [NB100-2080] - Ntera2 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with FGFR1 Antibody [M17D10] (NB100-2080) at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



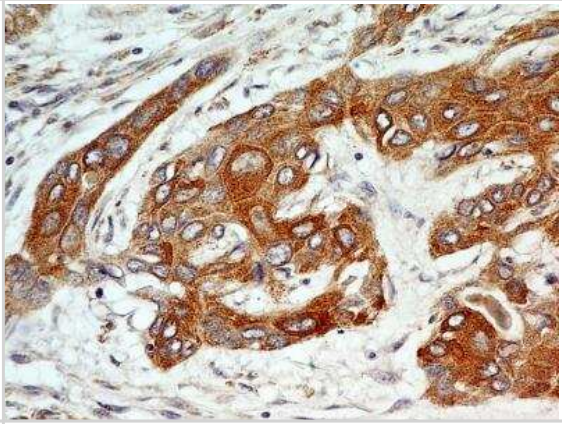
Immunocytochemistry/Immunofluorescence: FGFR1 Antibody (M17D10) [NB100-2080] - Ntera2 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with FGFR1 Antibody [M17D10] conjugated to Alexa Fluor 488 (NB100-2080AF488) at 10 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



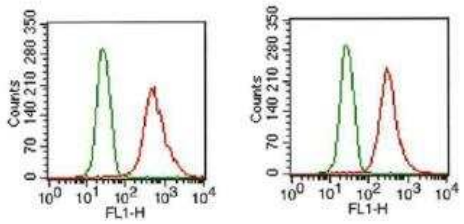
Western Blot: FGF R1 Antibody (M17D10) [NB100-2080] - Total protein from MOLT-4 (lane 1) and Ntera-2 (lane 2) was separated on a 7.5% gel by SDS-PAGE. Protein was transferred to PVDF membrane, blocked and probed with 1 ug/mL of anti-FGF R1. FGF R1 protein was detected at ~150 kDa using an anti-mouse HRP secondary antibody.



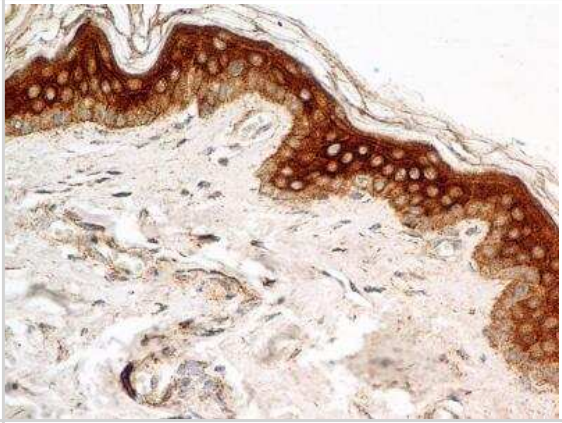
Immunohistochemistry-Paraffin: FGF R1 Antibody (M17D10) [NB100-2080] - IHC analysis of formalin-fixed paraffin-embedded tissue section of human esophageal squamous cell carcinoma (SCC) using mouse monoclonal FGF R1 antibody (clone M17D10) at 5 ug/ml concentration. Specific membrane-cytoplasmic immunopositivity of FGF R1 protein was observed in SCC cells whereas the nuclei of SCC cells as well as the tumor stroma was largely negative for this protein.



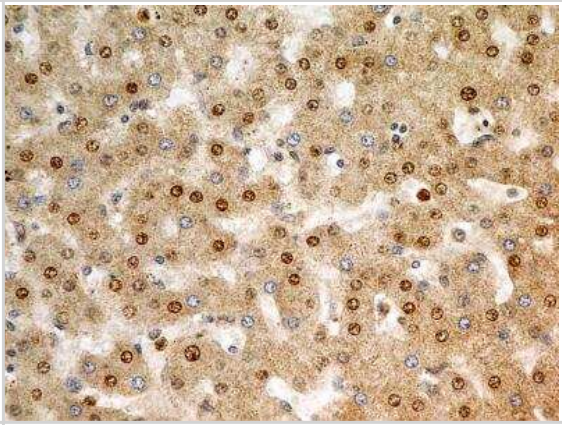
Flow Cytometry: FGF R1 Antibody (M17D10) [NB100-2080] - Analysis of FGF R1 in MCF-7 cells (1x10^6 cells/mL) were stained with FGF R1 antibody (NB100-2080, red) at 1:1000. Detected with FITC conjugated goat anti-mouse IgG1 isotype control (green). Two distinct samples shown.



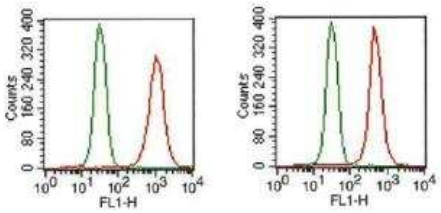
Immunohistochemistry-Paraffin: FGF R1 Antibody (M17D10) [NB100-2080] - Analysis of FFPE tissue section of human normal skin using mouse monoclonal FGF R1 antibody (clone M17D10) at 5 ug/mL. Cells of the epidermal layer showed a very strong membrane-cytoplasmic staining with relatively weak nuclear immunopositivity for for this protein. The stratum basale / bottom layer of keratinocytes in the epidermis showed a membrane-cytoplasmic stainin for FGF R1.



Immunohistochemistry-Paraffin: FGF R1 Antibody (M17D10) [NB100-2080] - Analysis of FFPE tissue section of human liver using mouse monoclonal FGF R1 antibody (clone M17D10) at 5 ug/mL. The hepatocytes depicted an expected and specific membrane-cytoplasmic-nuclear immunostaining of FGF R1 protein.



Flow Cytometry: FGF R1 Antibody (M17D10) [NB100-2080] - Analysis of FGF R1 in HEK293 cells (2x10^6 cells/ml) were stained with FGF R1 antibody (NB100-2080, red) at 1:1000 dilution. Detected with FITC conjugated goat anti-mouse IgG1 isotype control (green). Two distinct samples shown.



Publications

Robinson ML, MacMillan-Crow LA, Thompson JA, Overbeek PA. Expression of a truncated FGF receptor results in defective lens development in transgenic mice. Development. 1995-12-01 [PMID: 8575296] (WB, Mouse)

Procedures

Immunohistochemistry-Paraffin protocol for FGFR1 Antibody (NB100-2080)
FGFR1 Antibody (M17D10):
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 NB100-2080

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB100-2080AF488	FGFR1 Antibody (M17D10) [Alexa Fluor® 488]

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