Product Datasheet

Anti-NFIB/NF1B2 Antibody Picoband (monoclonal, 4D6E4) (orb865674)

Description	Anti-NFIB/NF1B2 Antibody (monoclonal, 4D6E4). Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Species/Host	Mouse
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Tested Applications	FC, ICC, IF, WB
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NFIB/NF1B2, identical to the related mouse and rat sequences.
Form/Appearance	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Western blot, 0.25-0.5 µg/ml, Human Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human Flow Cytometry (Fixed), 1-3 µg/1x106 cells, Human, Mouse, Rat. Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml
Isotype	Mouse IgG2b
Clonality	Monoclonal
Clone Number	4D6E4
MW	68 kDa

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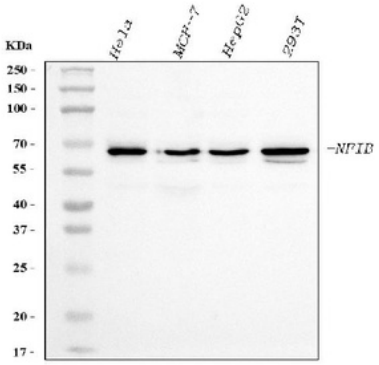
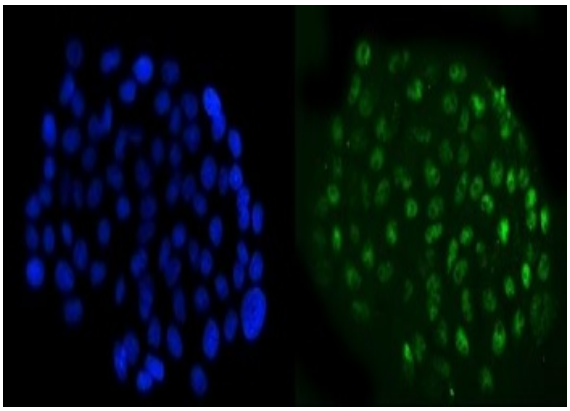
Uniprot ID O00712

Expiration Date 12 months from date of receipt.



Western blot analysis of NFIB/NF1B2 using anti-NFIB/NF1B2 antibody (orb865674). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human 293T whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-NFIB/NF1B2 antigen affinity purified monoclonal antibody (Catalog # orb865674) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # orb90502) with Tanon 5200 system. A specific band was detected for NFIB/NF1B2 at approximately 68 kDa. The expected band size for NFIB/NF1B2 is at 68 kDa.



IF analysis of NFIB/NF1B2 using anti-NFIB/NF1B2 antibody (orb865674). NFIB/NF1B2 was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (orb90553) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 µg/mL mouse anti-NFIB/NF1B2 Antibody (orb865674) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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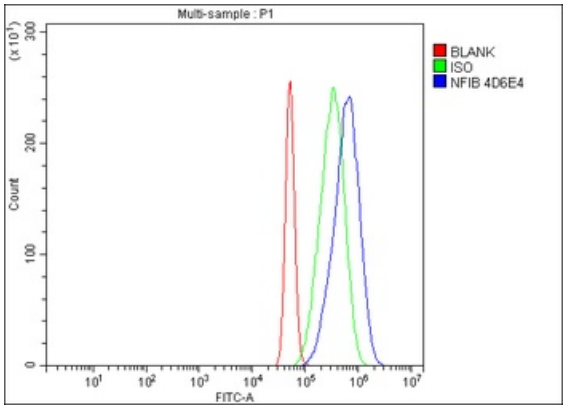
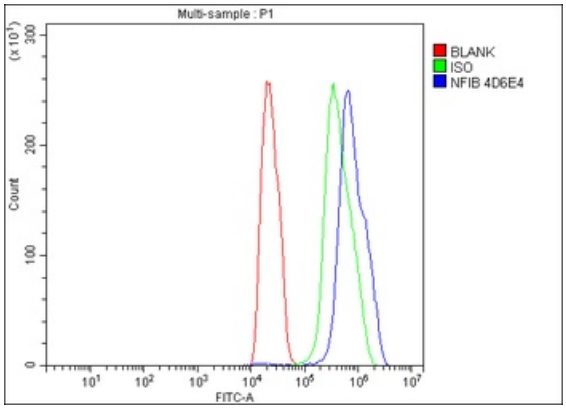
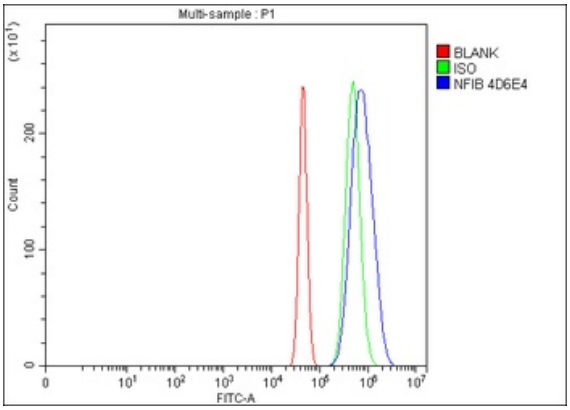


Flow Cytometry analysis of A431 cells using anti-NFIB/NF1B2 antibody (orb865674). Overlay histogram showing A431 cells stained with orb865674 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-NFIB/NF1B2 Antibody (orb865674, 1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Flow Cytometry analysis of C6 cells using anti-NFIB/NF1B2 antibody (orb865674). Overlay histogram showing C6 cells stained with orb865674 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-NFIB/NF1B2 Antibody (orb865674, 1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Flow Cytometry analysis of Neuro-2a cells using anti-NFIB/NF1B2 antibody (orb865674). Overlay histogram showing Neuro-2a cells stained with orb865674 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-NFIB/NF1B2 Antibody (orb865674, 1 µg/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (5-10 µg/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 µg/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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