

Product Datasheet

FoxO1/FKHR Antibody (83N7F8) - BSA Free NBP2-31376

Unit Size: 0.1 mg

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

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NBP2-31376

FoxO1/FKHR Antibody (83N7F8) - BSA Free

Product Information

| | |
|----------------------|--|
| Unit Size | 0.1 mg |
| 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 | 83N7F8 |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG2b Kappa |
| Purity | Protein G purified |
| Buffer | PBS |

Product Description

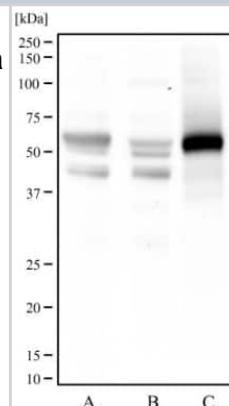
| | |
|-------------------------|--|
| Host | Mouse |
| Gene ID | 2308 |
| Gene Symbol | FOXO1 |
| Species | Human, Mouse, Rat |
| Reactivity Notes | Use in Mouse reported in scientific literature (PMID:33662610). Rat reactivity reported in scientific literature (PMID: 31553623). |
| Immunogen | FOXO1A |

Product Application Details

| | |
|------------------------------|--|
| Applications | Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 0.5-2 ug/ml, Simple Western 1:50, Flow Cytometry, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 0.1-2 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml |
| Application Notes | In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Hek293 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 107 kDa. |

Images

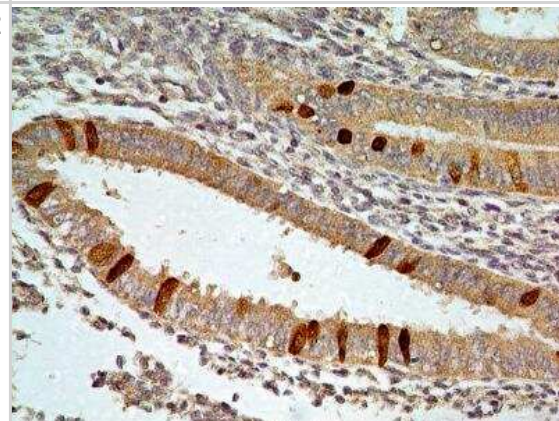
Western Blot: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Analysis of (A) Ntera2 cell lysate, (B) HEK293 cell lysate, and (C) human placenta tissue using FOXO1A antibody at a concentration of 2 ug/ml.



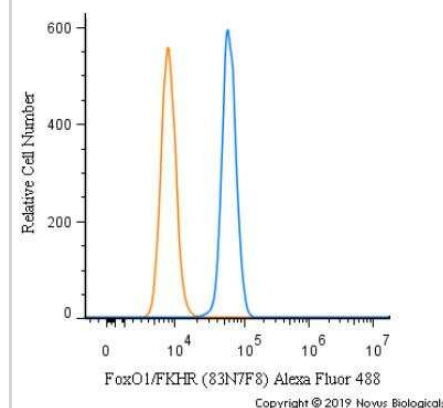
Immunocytochemistry/Immunofluorescence: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - FOXO1A antibody was tested in Ntera2 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). An antibody concentration of 0.1 ug/ml was used. Image objective 40x.



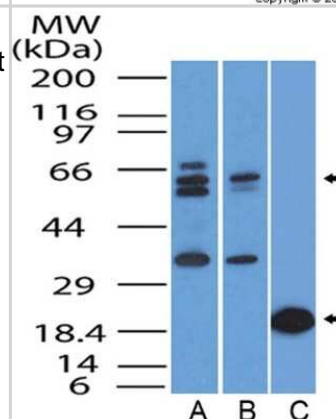
Immunohistochemistry-Paraffin: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Analysis of FOXO1A protein in a section of normal human uterus by using FOXO1A antibody at a concentration of 5 ug/ml. The columnar cells of straight non-convoluted glands in uterous showed specific staining for FOXO1A in the cellular cytoplasm as well as nuclei, whereas the stromal cells showed mild cytoplasmic staining only.



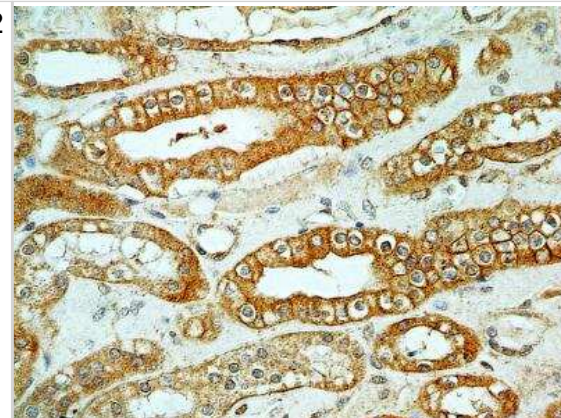
Flow Cytometry: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - An intracellular stain was performed on RH-30 cells with FoxO1/FKHR Antibody [83N7F8] NBP2-31376AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



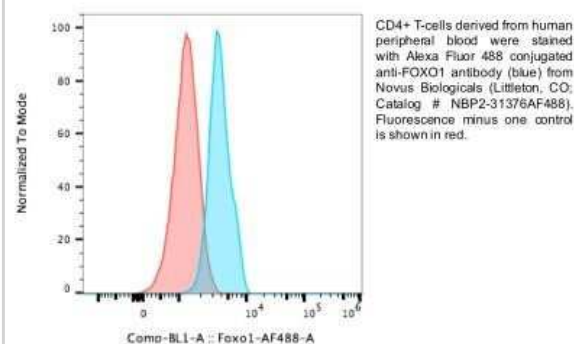
Western Blot: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Detection of FOXO1A / FOXO1 protein in (A) Hela cells lysate, (B) Jurkat cell lysate, and (C) partial recombinant protein by using FOXO1A antibody at a concentration of 0.5 ug/ml for lysate and 0.05 ug/ml for the recombinant protein.



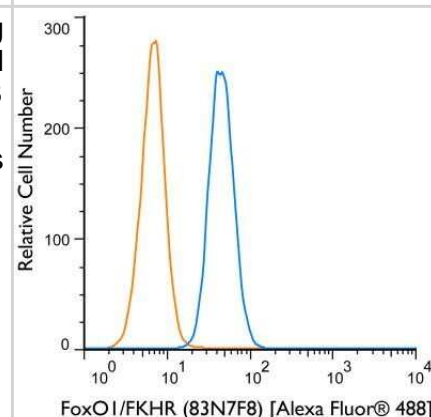
Immunohistochemistry-Paraffin: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Analysis of FOXO1A protein in a section of normal human kidney by using FOXO1A antibody at a concentration of 5 ug/ml. Cytoplasmic and nuclear positivity was observed in the cells of various tubules/ducts of renal medulla.



Flow Cytometry: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Analysis using the Alexa Fluor 488 conjugated FoxO1 antibody, NBP2-31376AF488 (blue) and fluorescence minus one control (red). Staining of FoxO1 in primary CD4+ T-cells isolated from human peripheral blood using 1uL of antibody per 1X10⁶ cells. Image from verified customer review.



Flow Cytometry: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Using the Alexa Fluor 488 direct conjugate An intracellular stain was performed on Daudi cells with FoxO1/FKHR (83N7F8) antibody NBP2-31376AF488 (blue) and a matched isotype control NBP2-27231AF488 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Flow Cytometry: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - An intracellular stain was performed on U2-OS cells with FoxO1/FKHR [83N7F8] Antibody NBP2-31376AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Simple Western: FoxO1/FKHR Antibody (83N7F8) [NBP2-31376] - Lane view shows a specific band for FoxO1/FKHR in 0.5 mg/ml of Hek293 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Tan L, Shi G, Zhao J et al. MDSCs participate in the pathogenesis of diffuse pulmonary hemorrhage in murine lupus through mTOR-FoxO1 signaling Biochemistry and Biophysics Reports 2022-12-01 [PMID: 36164563]

Zhang W, Cao X, Zhong X et al. Steroid nuclear receptor coactivator 2 controls immune tolerance by promoting induced Treg differentiation via up-regulating Nr4a2 Science advances 2022-06-17 [PMID: 35704583] (FLOW, Mouse)

Li D, Lu L, Kong W et al. C-type lectin receptor Dectin3 deficiency balances the accumulation and function of FoxO1-mediated LOX-1(+) M-MDSCs in relieving lupus-like symptoms Cell Death Dis 2021-09-03 [PMID: 34480018]

Details:

Citation using the Alexa Fluor 750 format of this antibody.

Zhang X, Liu X, Wan F et al. Protective effect of resveratrol against hydrogen peroxide-induced oxidative stress in bovine skeletal muscle cells Meat science 2021-12-16 [PMID: 34952489] (WB)

Ding Z, Qiu M, Alharbi M et al FOXO1 expression in chondrocytes modulates cartilage production and removal in fracture healing Bone 2021-03-04 [PMID: 33662610] (FLOW, Mouse)

Details:

Citation using the Alexa Fluor 488 version of this antibody.

Presby DM, Checkley LA, Jackman MR et al. Regular exercise potentiates energetically expensive hepatic de novo lipogenesis during early weight regain Am. J. Physiol. Regul. Integr. Comp. Physiol. 2019-09-25 [PMID: 31553623] (WB, Rat)

Hepp P, Hutter S, Knabl J et al. Histone H3 lysine 9 acetylation is downregulated in GDM Placentas and Calcitriol supplementation enhanced this effect Int J Mol Sci 2018-12-14 [PMID: 30558244] (WB, Human)



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Products Related to NBP2-31376

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43317-0.5mg | Mouse IgG2b Kappa Light Chain Isotype Control (MG2b) |
| NBP1-84674PEP | FoxO1/FKHR Recombinant Protein Antigen |

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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