

# Product Datasheet

## FoxO1/FKHR [p Ser256] Antibody - BSA Free NB100-81927

Unit Size: 0.05 ml

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

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### Publications: 9

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Updated 2/21/2025 v.20.1

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**NB100-81927**

FoxO1/FKHR [p Ser256] Antibody - BSA Free

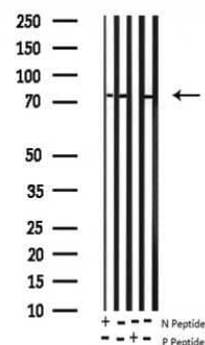
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol
Target Molecular Weight	82 kDa

Product Description	
Host	Rabbit
Gene ID	2308
Gene Symbol	FOXO1
Species	Human, Mouse, Rat
Specificity/Sensitivity	Detects endogenous levels of FoxO1/FKHR only when phosphorylated at serine 256.
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human FoxO1/FKHR around the phosphorylation site of serine 256.

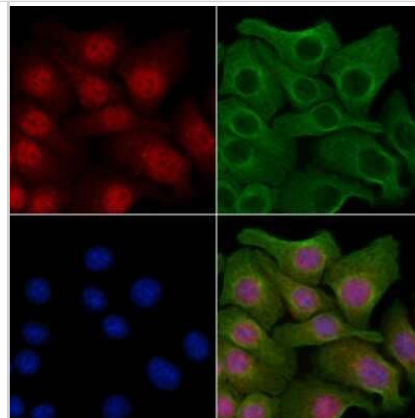
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry 1:100-1:200, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Immunoprecipitation 1:10-1:100, Immunohistochemistry-Paraffin

**Images**

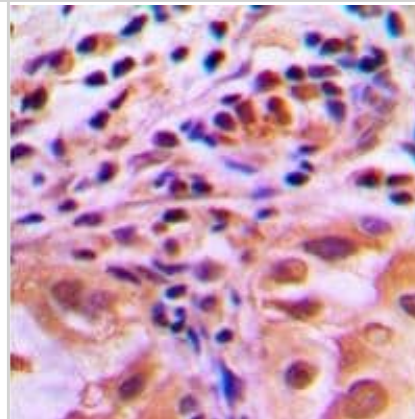
Western Blot: FoxO1/FKHR [p Ser256] Antibody [NB100-81927] -  
Western blot analysis of extracts from mouse brain/rat brain



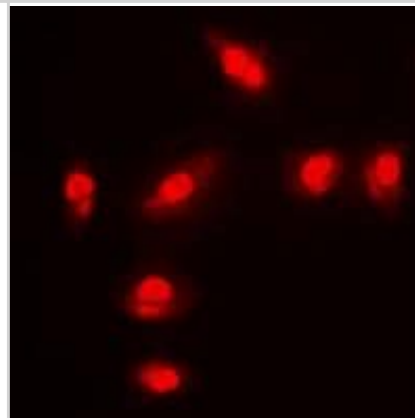
Immunocytochemistry/Immunofluorescence: FoxO1/FKHR [p Ser256] Antibody [NB100-81927] - Immunofluorescence staining of HepG2 cells (4h of LPS treatment). The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with NB100-81927 and mouse anti-beta tubulin antibody for 1 hour at 37°C. AlexaFluor594 goat anti-rabbit IgG(H+L) (Red) and AlexaFluor488 goat anti-mouse IgG(H+L) (Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



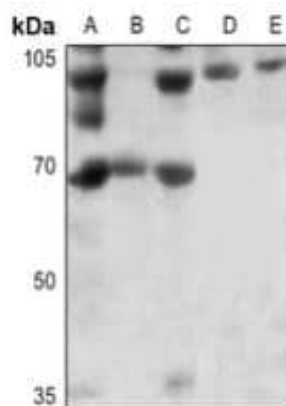
Immunohistochemistry-Paraffin: FoxO1/FKHR [p Ser256] Antibody [NB100-81927] - Immunohistochemical staining in human lung cancer formalin fixed paraffin-embedded tissue section.



Immunocytochemistry/ Immunofluorescence: FoxO1/FKHR [p Ser256] Antibody [NB100-81927] - Immunofluorescent staining in MCF7 cells.



Western Blot: FoxO1/FKHR [p Ser256] Antibody [NB100-81927] - Western blot analysis of FoxO1/FKHR [p Ser256] expression in HEK293T (A), Hela (B), K562 (C), mouse brain (D), rat brain (E) whole cell lysates.



## Publications

KE Ying, W Feng, WZ Ying, X Li, D Xing, Y Sun, Y Chen, PW Sanders Dietary salt initiates redox signaling between endothelium and vascular smooth muscle through NADPH oxidase 4 Redox Biology, 2022-03-24;52(0):102296. 2022-03-24 [PMID: 35378363]

Milanović, M;Beki, M;Vuković, J;Vučković, D;Polić, M;Tomić, S; Exogenous  $\alpha$ -ketoglutarate Modulates Redox Metabolism and Functions of Human Dendritic Cells, Altering Their Capacity to Polarise T Cell Response International journal of biological sciences 2024-01-20 [PMID: 38322117]

Liu N, Li R, Cao J et al. The inhibition of FKBP5 protects  $\beta$ -cell survival under inflammation stress via AKT/FOXO1 signaling Cell death discovery 2023-07-14 [PMID: 37452039] (WB, Mouse)

Yang KJ, Choi WJ, Chang YK et al. Inhibition of Xanthine Oxidase Protects against Diabetic Kidney Disease through the Amelioration of Oxidative Stress via VEGF/VEGFR Axis and NOX-FoxO3a-eNOS Signaling Pathway International journal of molecular sciences 2023-02-14 [PMID: 36835220] (WB, Mouse)

Liu N, Li R, Cao J et al. The inhibition of FKBP5 protects  $\beta$  cell survival under inflammation stress via AKT/FOXO1 signaling. Research Square 2023-02-07 (ICC/IF, WB, Human)

Liu Z, Du J, Ren J et al. miR-183-96-182 clusters alleviated ox-LDL-induced vascular endothelial cell apoptosis in vitro by targeting FOXO1 RSC Adv 2022-05-13 [PMID: 35547044]

Miyake M, Hori S, Itami Y et al. Supplementary Oral Anamorelin Mitigates Anorexia and Skeletal Muscle Atrophy Induced by Gemcitabine Plus Cisplatin Systemic Chemotherapy in a Mouse Model Cancers (Basel) 2020-07-17 [PMID: 32709007] (WB, Mouse)

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)

Haapalainen AM, Karjalainen MK, Daddali R et al. Expression of CPPED1 in human trophoblasts is associated with timing of term birth. J. Cell. Mol. Med. 2017-11-29 [PMID: 29193784] (WB, Human)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-81927**

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NBL1-10813	FoxO1/FKHR Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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