

Product Datasheet

SOD1/Cu-Zn SOD Antibody

NB100-60944

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-60944**SOD1/Cu-Zn SOD Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	16 kDa

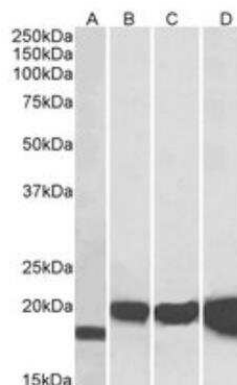
Product Description	
Host	Goat
Gene ID	6647
Gene Symbol	SOD1
Species	Human, Mouse
Immunogen	Peptide with sequence C-SRKHGGPKDEERH corresponding to internal region according to NP_000445.1.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Peptide ELISA
Recommended Dilutions	Western Blot 0.01 - 0.03 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Peptide ELISA Detection limit 1:8000
Application Notes	Western blot: Approx 18 kDa band observed in Mouse Brain and Rat Spinal Cord lysates, and in lysates of cell line NIH3T3. Approx 20 kDa observed in lysates of cell lines HEK293, HepG2 and MCF7 (calculated MW of 15.9 kDa according to Human NP_000445.1, Mouse NP_035564.1 and Rat NP_058746.1).

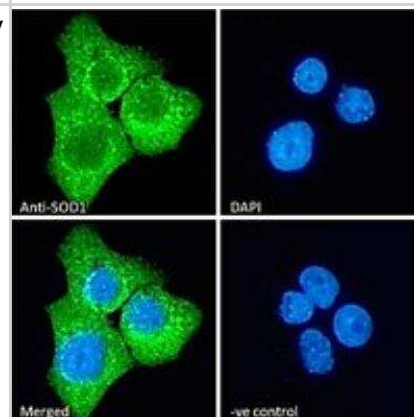


Images

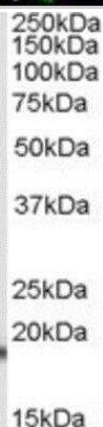
Western Blot: SOD1/Cu-Zn SOD Antibody [NB100-60944] - Staining of NIH3T3 (A), HEK293 (B), HepG2 (C) and MCF7 (D) lysates (35 ug protein in RIPA buffer). Antibody at 0.01 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence.



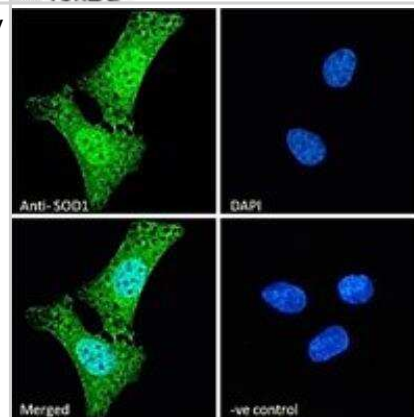
Immunocytochemistry/Immunofluorescence: SOD1/Cu-Zn SOD Antibody [NB100-60944] - Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Western Blot: SOD1/Cu-Zn SOD Antibody [NB100-60944] - Staining of Mouse Brain lysate (35 ug protein in RIPA buffer). Antibody at 0.02 ug/mL. Detected by chemiluminescence.



Immunocytochemistry/Immunofluorescence: SOD1/Cu-Zn SOD Antibody [NB100-60944] - Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Publications

Morton NM, Beltram J, Carter RN et al. Genetic identification of thiosulfate sulfurtransferase as an adipocyte-expressed antidiabetic target in mice selected for leanness. *Nat. Med.* 2016-06-06 [PMID: 27270587]

Tracy EP, Dukes M, Beare J et al. Stromal Vascular Fraction Restores Vasodilatory Function by Reducing Oxidative Stress in Aging-Induced Coronary Microvascular Disease *Antioxidants & redox signaling* 2022-08-11 [PMID: 35950616]

Ghadge GD, Wang L, Sharma K et al. Truncated wild-type SOD1 and FALS-linked mutant SOD1 cause neural cell death in the chick embryo spinal cord. *Neurobiol Dis* 2006-01-01 [PMID: 16084730]

Cowley PM, Keslacy S, Middleton FA et al. Functional and biochemical characterization of soleus muscle in Down syndrome mice: insight into the muscle dysfunction seen in the human condition *Am J Physiol Regul Integr Comp Physiol* 2012-12-01 [PMID: 23115123] (WB, Mouse)

DeRuisseau LR, Recca DM, Mogle JA et al. Metallothionein deficiency leads to soleus muscle contractile dysfunction following acute spinal cord injury in mice. *Am J Physiol Regulatory Integrative Comp Physiol* :00263. 2009-12-01 [PMID: 19828842]





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Products Related to NB100-60944

NBL1-16332	SOD1/Cu-Zn SOD Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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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