

Product Datasheet

SOD2/Mn-SOD Antibody - BSA Free NB100-1969-25ug

Unit Size: 25 ug

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

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NB100-1969-25ug

SOD2/Mn-SOD Antibody - BSA Free

Product Information	
Unit Size	25 ug
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4), 50% Glycerol

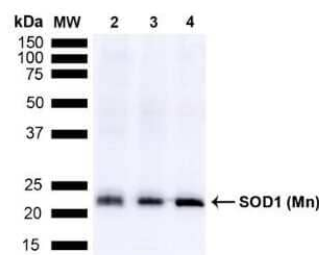
Product Description	
Description	Novus Biologicals Rabbit SOD2/Mn-SOD Antibody - BSA Free (NB100-1969) is a polyclonal antibody validated for use in IHC, WB, ELISA and IP. Anti-SOD2/Mn-SOD Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6648
Gene Symbol	SOD2
Species	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Guinea Pig, Hamster, Gerbil, Monkey, Rabbit, Sheep, Xenopus
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24578415). Immunogen displays sequence identity for non-tested species: Rat, Bovine, Canine, Chicken, Gerbil, Guinea pig, Porcine, Hamster, Monkey, Rabbit, Sheep, Xenopus, Frog and Wood Frog (<i>Rana sylvatica</i>).
Specificity/Sensitivity	Detects approx 25 kDa.
Immunogen	Recombinant Human Mn SOD Protein

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000, ELISA 1:100 - 1:2000, Immunohistochemistry 1:100, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen 1:100
Application Notes	0.2 ug/mL of SOD (Mn) Antibody was sufficient for detection of Mn SOD in 20 ug of rat brain tissue extract by colorimetric immunoblot analysis using Goat anti-mouse IgG:AP as the secondary Antibody. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 24578415).



Images

Western Blot: SOD2/Mn-SOD Antibody [NB100-1969] - Western blot analysis of Mouse Brain, Rat Brain, and Rat Brain Membrane showing detection of 24.7kDa SOD (Mn) protein using Rabbit Anti-SOD (Mn) Polyclonal Antibody (NB100-1969). Lane 1: MW Ladder. Lane 2: Mouse Brain (15 ug). Lane 3: Rat Brain (15 ug). Lane 4: Rat Brain Membrane (15 ug). Block: 5% Skim Milk powder in TBST. Primary Antibody: Rabbit Anti-SOD (Mn) Polyclonal Antibody (NB100-1969) at 1:1000 for O/N at 4C. Secondary Antibody: Goat anti-rabbit IgG:HRP at 1:5000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Predicted/Observed Size: 24.7kDa.



Publications

Lakhani R, Vogel KR, Till A et al. Defects in GABA metabolism affect selective autophagy pathways and are alleviated by mTOR inhibition. *EMBO Mol Med* 2014-02-28 [PMID: 24578415] (IHC-Fr, Mouse)

Kalash R, Epperly MW, Goff J et al. Amelioration of Radiation-Induced Pulmonary Fibrosis by a Water-Soluble Bifunctional Sulfoxide Radiation Mitigator (MMS350). *Radiat Res.* 2013-11-01 [PMID: 24125487]

Epperly MW, Chaillet JR, Kalash R et al. Conditional Radioresistance of tet-Inducible Manganese Superoxide Dismutase Bone Marrow Stromal Cell Lines. *Radiat Res* 2013-08-01 [PMID: 23862693]

Dumont M, Stack C, Elipenahli C et al. Behavioral deficit, oxidative stress, and mitochondrial dysfunction precede tau pathology in P301S transgenic mice. *FASEB J.* 2011-08-08 [PMID: 21825035]

Lee DW, Rajagopalan S, Siddiq A et al. Inhibition of Prolyl Hydroxylase Protects against 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Neurotoxicity: MODEL FOR THE POTENTIAL INVOLVEMENT OF THE HYPOXIA-INDUCIBLE FACTOR PATHWAY IN PARKINSON DISEASE. *J Biol Chem*;284(42):29065-29076. 2009-01-01 [PMID: 19679656]



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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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