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Datasheet for ABIN7170983
anti-SOD2 antibody (AA 64-175)

4 Images

Overview

Quantity:	100 µg
Target:	SOD2
Binding Specificity:	AA 64-175
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOD2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Superoxide dismutase [Mn], mitochondrial protein (64-175AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	>95%, Protein G purified

Target Details

Target:	SOD2
Alternative Name:	SOD2 (SOD2 Products)
Background:	Background: Destroys superoxide anion radicals which are normally produced within the cells

Target Details

and which are toxic to biological systems.

Aliases: Indophenoloxidase B antibody, IPO B antibody, IPOB antibody, Manganese containing superoxide dismutase antibody, Manganese SOD antibody, Manganese superoxide dismutase antibody, Mangano superoxide dismutase antibody, Mn SOD antibody, Mn superoxide dismutase antibody, MNSOD antibody, MVCD6 antibody, SOD 2 antibody, SOD2 antibody, SODM_HUMAN antibody, Superoxide dismutase [Mn] mitochondrial antibody, Superoxide dismutase [Mn], mitochondrial antibody, Superoxide dismutase 2 mitochondrial antibody

UniProt: [P04179](#)

Pathways: [Sensory Perception of Sound](#), [Transition Metal Ion Homeostasis](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:500-1:1000, IF:1:200-1:500, IP:1:200-1:2000,

Restrictions: For Research Use only

Handling

Format: Liquid

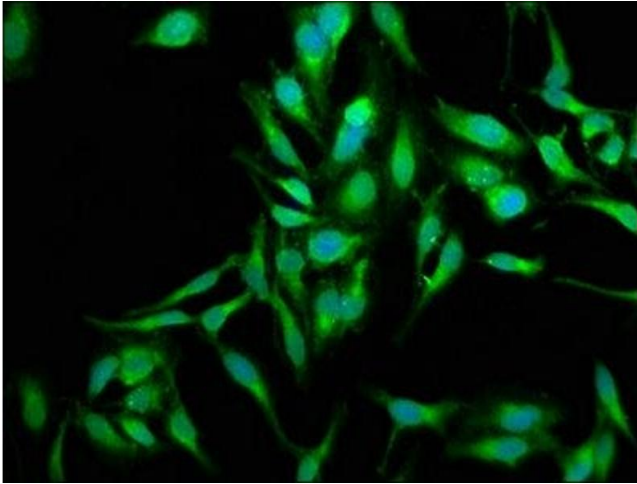
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

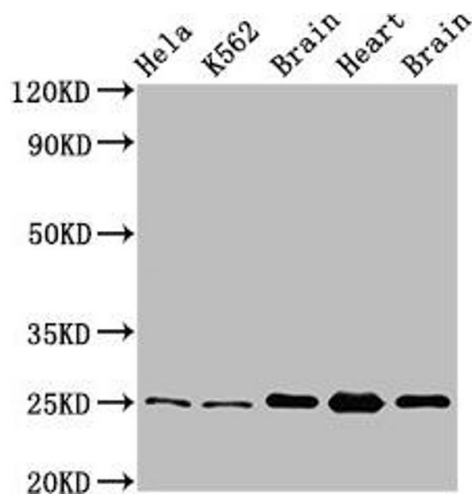
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



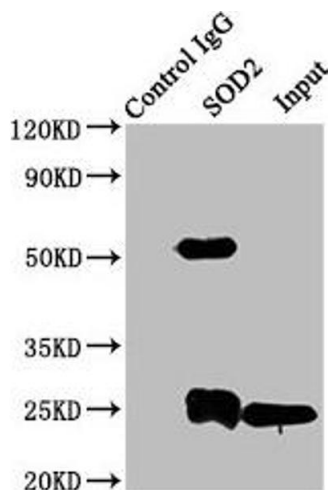
Immunofluorescence

Image 1. Immunofluorescence staining of HeLa cells with ABIN7170983 at 1:250, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Western Blotting

Image 2. Western Blot Positive WB detected in: HeLa whole cell lysate, K562 whole cell lysate, Rat brain tissue, Rat heart tissue, Mouse brain tissue. All lanes: SOD2 antibody at 3.4 µg/mL. Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 25, 21, 19, 20 kDa. Observed band size: 25 kDa.



Western Blotting

Image 3. Immunoprecipitating SOD2 in K562 whole cell lysate. Lane 1: Rabbit control IgG instead of ABIN7170983 in K562 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000). Lane 2: ABIN7170983 (8 µg) + K562 whole cell lysate (500 µg). Lane 3: K562 whole cell lysate (10 µg).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7170983.