abcam

Product datasheet

Anti-SOD2/MnSOD antibody ab13533

★★★★★ 30 Abreviews 301 References 3 Images

Overview

Product name Anti-SOD2/MnSOD antibody

Description Rabbit polyclonal to SOD2/MnSOD

Host species Rabbit

Tested applications Suitable for: WB

Species reactivity Reacts with: Mouse, Rat

Predicted to work with: Human

Immunogen Recombinant fragment corresponding to Human SOD2/MnSOD.

Database link: P04179

Positive control WB: Mouse Brain; Rat Brain Membrane; Mouse Liver; Mouse Hepatocytes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or

contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

General notes

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer Preservative: 0.1% Sodium azide

Constituents: PBS, 50% Glycerol

Purity Immunogen affinity purified

Purification notesThis antibody was immunoaffinity purified.

Clonality Polyclonal

Isotype IgG

Applications

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The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab13533 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	**** (<u>22)</u>	1/5000. Detects a band of approximately 25 kDa (predicted molecular weight: 26.6 kDa).

Target

FunctionDestroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.

Involvement in disease Genetic variation in SOD2 is associated with susceptibility to microvascular complications of

diabetes type 6 (MVCD6) [MIM:612634]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is

characterized by vascular permeability and increased tissue ischemia and angiogenesis.

Sequence similarities Belongs to the iron/manganese superoxide dismutase family.

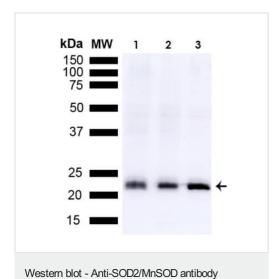
Post-translational modifications

Cellular localization Mitocho

Mitochondrion matrix.

Images

(ab13533)



All lanes: Anti-SOD2/MnSOD antibody (ab13533) at 1/1000

dilution (o/n at 4degC)

Lane 1: Mouse brain

Lane 2: Rat brain

Lane 3: Rat brain membrane

Lysates/proteins at 15 µg per lane.

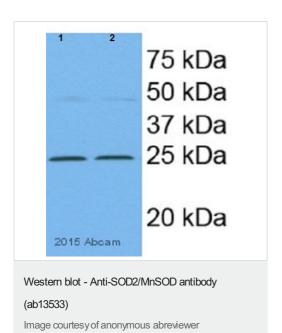
Secondary

All lanes: Goat anti-rabbit lgG HRP for 1 hr at RT with shaking at 1/5000 dilution

Predicted band size: 26.6 kDa

Block: 5% Skim Milk powder in TBST.

Color Development: Chemiluminescent for HRP for 5 min at RT.



All lanes : Anti-SOD2/MnSOD antibody (ab13533) at 1/5000 dilution

Lane 1: mouse liver whole cell lysate

Lane 2: mouse hepatocytes whole cell lysate

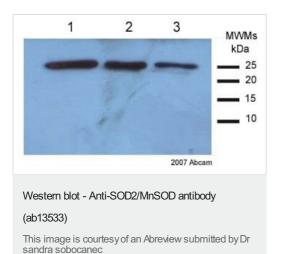
Secondary

All lanes: Goat anti-rabbit HRP conjugate at 1/20000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 26.6 kDa **Observed band size:** 24 kDa



Exposure time: 15 seconds

All lanes: Anti-SOD2/MnSOD antibody (ab13533) at 1/5000

dilution

Lane 1 : 2ug mouse liver homogenate supernatant

Lane 2 : 1ug mouse liver homogenate supernatant

Lane 3: 0.5ug mouse liver homogenate supernatant

Secondary

All lanes: HRP conjugated donkey anti-rabbit antibody

Performed under reducing conditions.

Predicted band size: 26.6 kDa **Observed band size:** 25 kDa

Exposure time: 10 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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