

Datasheet for ABIN737361  
**anti-SOD2 antibody (AA 41-78)**

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## Overview

Quantity:	100 µL
Target:	SOD2
Binding Specificity:	AA 41-78
Reactivity:	Human, Mouse, Pig, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOD2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SOD2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Sheep
Predicted Reactivity:	Rat,Dog,Cow,Horse,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	SOD2
Alternative Name:	SOD2 ( <a href="#">SOD2 Products</a> )
Background:	Synonyms: IPOB, MNSOD, MVCD6, Superoxide dismutase [Mn], mitochondrial, SOD2

## Target Details

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

Gene ID: 6648

UniProt: [P04179](#)

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

## Application Details

Application Notes: WB 1:300-5000  
IHC-P 1:200-400

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

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

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

Product cited in: Yun, Gao, Yue, Guo, Li, Sang: "Sulfate Aerosols Promote Lung Cancer Metastasis by Epigenetically Regulating the Epithelial-to-Mesenchymal Transition (EMT)." in: **Environmental science & technology**, Vol. 51, Issue 19, pp. 11401-11411, (2018) ([PubMed](#)).

Zhang, Zhao, Zhang, Hao, Yu, Min, Li, Ma, Chen, Yi, Tang, Meng, Liu, Wang, Shen, Zhang: "Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." in: **Chemosphere**, Vol. 194, pp. 147-157, (2018) ([PubMed](#)).

Wang, Zhao, Yu, Feng, Zhang, Kou, Chu, Cui, Li, Zhang, Shen, Min: "Regulation of steroid hormones and energy status with cysteamine and its effect on spermatogenesis." in:

**Toxicology and applied pharmacology**, Vol. 313, pp. 149-158, (2016) ([PubMed](#)).

Zhao, Zhang, Liu, Zhang, Hao, Li, Chen, Shen, Tang, Min, Meng, Wang, Yi, Zhang: "Hydrogen Sulfide and/or Ammonia Reduces Spermatozoa Motility through AMPK/AKT Related Pathways.

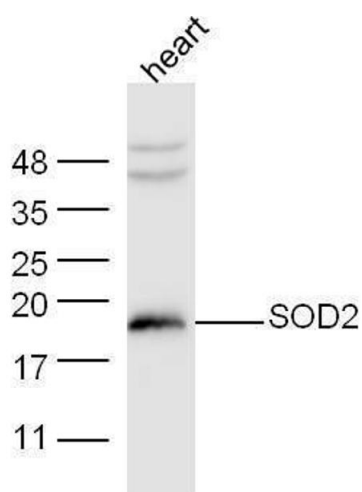
" in: **Scientific reports**, Vol. 6, pp. 37884, (2016) ([PubMed](#)).

Yuan, Han, Cong, Ge, Ma, Dai, Li, Bi: "Docetaxel-loaded solid lipid nanoparticles suppress breast cancer cells growth with reduced myelosuppression toxicity." in: **International journal of**

**nanomedicine**, Vol. 9, pp. 4829-46, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images



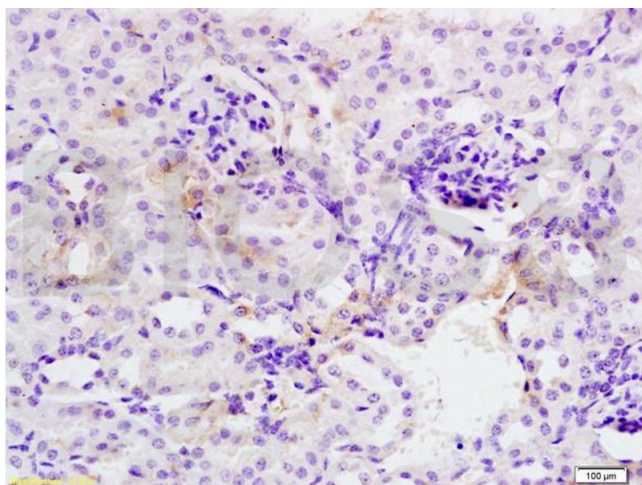
### Western Blotting

**Image 1.** Mouse heart lysates probed with Anti-SOD2 Polyclonal Antibody at 1:5000 90min in 37°C. Predicted and observed band size: 17kDa,33kD



### Immunohistochemistry

**Image 2.** Formalin-fixed and mouse heart tissue labeled with Anti-SOD2 Polyclonal Antibody, Unconjugated (ABIN737361) at 1:200 followed by conjugation to the secondary antibody and DAB staining



### Immunohistochemistry

**Image 3.** Formalin-fixed and mouse kidney tissue labeled with Anti-SOD2 Polyclonal Antibody, Unconjugated (ABIN737361) at 1:200 followed by conjugation to the secondary antibody and DAB staining