

**Product Name: SOD-2 Rabbit Polyclonal Antibody**  
**Catalog #: APRab18099**



## Summary

<b>Production Name</b>	SOD-2 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	SOD2
<b>Alternative Names</b>	SOD2; Superoxide dismutase [Mn], mitochondrial
<b>Gene ID</b>	6648.0
<b>SwissProt ID</b>	P04179.The antiserum was produced against synthesized peptide derived from the Internal region of human SOD2. AA range:91-140

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000. ELISA: 1:10000.
<b>Molecular Weight</b>	24kD

## Background

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms

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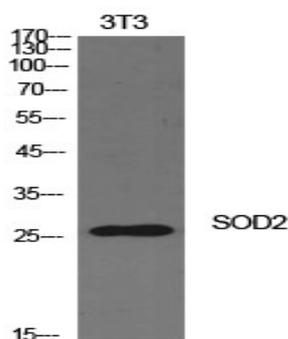


a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. [provided by RefSeq, Apr 2016],catalytic activity:2 superoxide + 2 H(+) = O(2) + H(2)O(2),cofactor:Binds 1 manganese ion per subunit,disease:Genetic variation in SOD2 is associated with susceptibility to diabetic nephropathy [MIM:612634]; also called susceptibility to microvascular complications of diabetes type 6 (MVCD6). Diabetic nephropathy is a kidney disease and resultant kidney function impairment due to the long standing effects of diabetes on the microvasculature (glomerulus) of the kidney. Features include increased urine protein and declining kidney function.,function:Destroys radicals which are normally produced within the cells and which are toxic to biological systems.,online information:Superoxide dismutase entry,online information:The Singapore human mutation and polymorphism database,PTM:Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity.,similarity:Belongs to the iron/manganese superoxide dismutase family.,subunit:Homotetramer.,

## Research Area

Huntington's disease;

## Image Data



Western Blot analysis of NIH-3T3 cells using SOD-2 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

## Note

For research use only.