

For Research Use Only

# SOD3 Polyclonal antibody

Catalog Number: 14316-1-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

14316-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5556

### GenBank Accession Number:

BC014418

### GeneID (NCBI):

6649

### UNIPROT ID:

P08294

### Full Name:

superoxide dismutase 3, extracellular

### Calculated MW:

26 kDa

### Observed MW:

25-33 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

### Tested Applications:

WB, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : human urine sample, human heart tissue, human urine, human placenta tissue

IP : human placenta tissue,

## Background Information

SOD is located intracellular (SOD-1; cytosolic, SOD-2; mitochondrial matrix) and extracellular (SOD-3), and catalyzes the dismutation of superoxide anion to H<sub>2</sub>O<sub>2</sub>. SOD3, or EC-SOD, is the most recently characterized SOD, exists as a copper and zinc-containing tetramer, and is synthesized containing a signal peptide that directs this enzyme exclusively to extracellular spaces. SOD-3 is a Mn-containing tetrameric protein with a subunit Mr of 24-35 kDa. The activity of EC-SOD is dependent on its ability to form a tetramer of 135 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenjuan Qin	31506552	Sci Rep	WB
Xue Tian	34403689	Toxicol Appl Pharmacol	WB
Ai Wei	34378791	Br J Pharmacol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

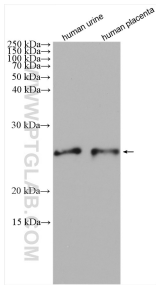
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

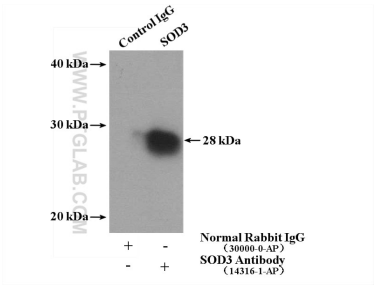
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14316-1-AP (SOD3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SOD3 (IP:14316-1-AP, 4ug; Detection:14316-1-AP 1:1000) with human placenta tissue lysate 2800ug.