

# SOD3 Rabbit Polyclonal Antibody



CAB6984

## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

35kDa

### Calculated MW:

25kDa

### Applications:

WB IHC IF

### Reactivity:

Human, Mouse, Rat

## Antibody Information

### Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50  
- 1:200 IF 1:50 - 1:200

### Source:

Rabbit

### Isotype:

IgG

### Purification:

Affinity purification

## Protein Background

This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the conversion of superoxide radicals into hydrogen peroxide and oxygen, which may protect the brain, lungs, and other tissues from oxidative stress. Proteolytic processing of the encoded protein results in the formation of two distinct homotetramers that differ in their ability to interact with the extracellular matrix (ECM). Homotetramers consisting of the intact protein, or type C subunit, exhibit high affinity for heparin and are anchored to the ECM. Homotetramers consisting of a proteolytically cleaved form of the protein, or type A subunit, exhibit low affinity for heparin and do not interact with the ECM. A mutation in this gene may be associated with increased heart disease risk.

## Immunogen information

### Gene ID:

6649

### Uniprot

P08294

### Synonyms:

SOD3; EC-SOD

### Immunogen:

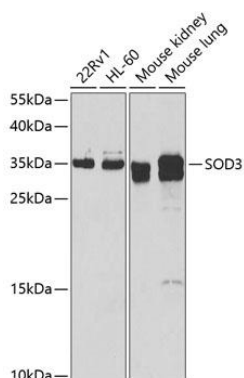
Recombinant fusion protein containing a sequence corresponding to amino acids 19-160 of human SOD3 (NP\_003093.2).

### Storage:

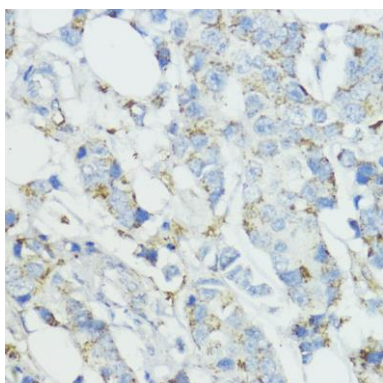
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

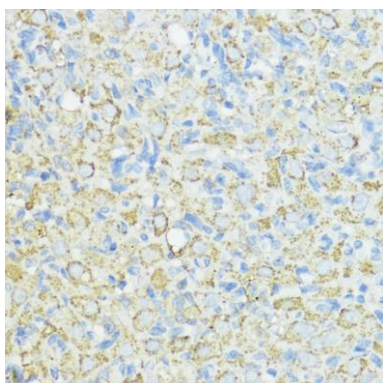
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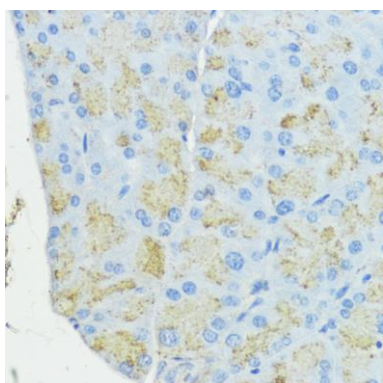
Western blot analysis of extracts of various cell lines, using SOD3 antibody (CAB6984) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.



Immunohistochemistry of paraffin-embedded human mammary cancer using SOD3 antibody (CAB6984) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded rat ovary using SOD3 antibody (CAB6984) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse pancreas using SOD3 antibody (CAB6984) at dilution of 1:100 (40x lens).