

SOD3 Polyclonal Antibody

Catalog No: #30781



Package Size: #30781-1 50ul #30781-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

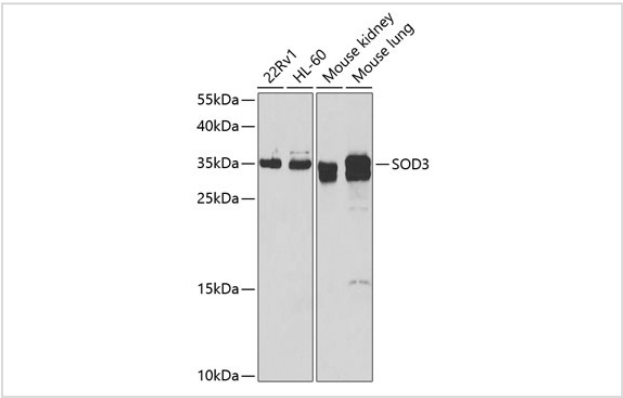
Description

Product Name	SOD3 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant fusion protein of human SOD3 (NP_003093.2).
Other Names	SOD3; EC-SOD; superoxide dismutase 3
Accession No.	Swiss-Prot#:P08294NCBI Gene ID:6649
Uniprot	P08294
GeneID	6649;
Calculated MW	35kDa
Formulation	Avoid freeze / thaw cycles. Buffer: PBS with 50% glycerol, pH7.4.
Storage	Store at -20°C

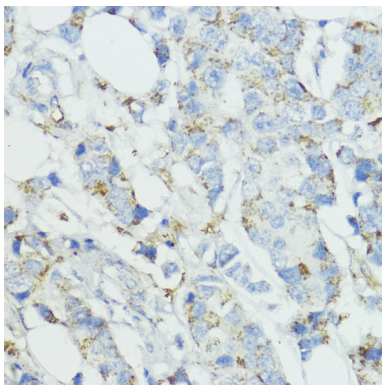
Application Details

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

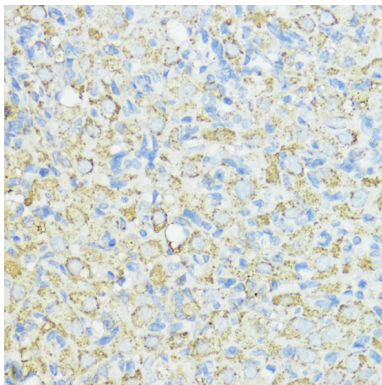
Images



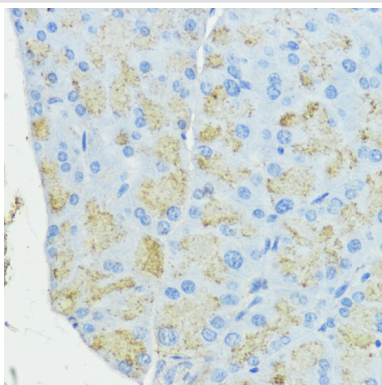
Western blot analysis of extracts of various cell lines, using SOD3 at 1:1000 dilution.



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



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



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

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.

Note: This product is for in vitro research use only