

## ARG59110 anti-SOD3 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes SOD3
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SOD3
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 41-56 of Human SOD3. (KVTEIWQEVMQRRDDD)
Conjugation	Un-conjugated
Alternate Names	EC 1.15.1.1; Extracellular superoxide dismutase [Cu-Zn]; EC-SOD

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-Fr	0.5 - 1 µg/ml
	IHC-P	1:200 - 1:1000
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

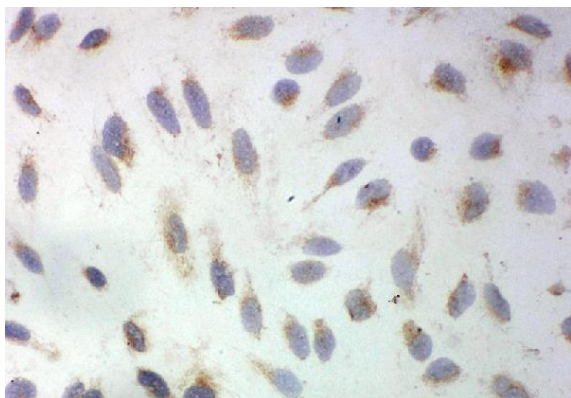
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

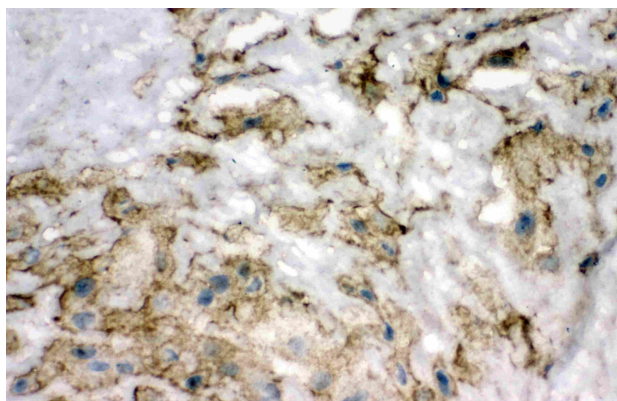
Gene Symbol	SOD3
Gene Full Name	superoxide dismutase 3, extracellular
Background	This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. The product of this gene is thought to protect the brain, lungs, and other tissues from oxidative stress. The protein is secreted into the extracellular space and forms a glycosylated homotetramer that is anchored to the extracellular matrix (ECM) and cell surfaces through an interaction with heparan sulfate proteoglycan and collagen. A fraction of the protein is cleaved near the C-terminus before secretion to generate circulating tetramers that do not interact with the ECM. [provided by RefSeq, Jul 2008]
Function	Protect the extracellular space from toxic effect of reactive oxygen intermediates by converting superoxide radicals into hydrogen peroxide and oxygen. [UniProt]
Calculated Mw	26 kDa
Cellular Localization	Secreted, extracellular space. Note=99% of EC-SOD is anchored to heparan sulfate proteoglycans in the tissue interstitium, and 1% is located in the vasculature in equilibrium between the plasma and the endothelium. [UniProt]

## Images



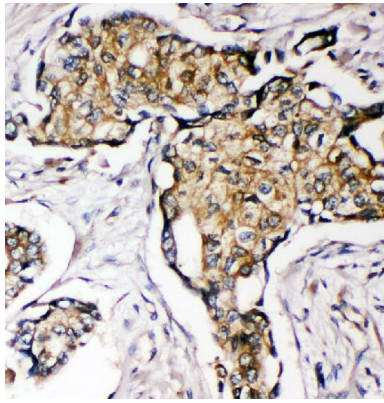
ARG59110 anti-SOD3 antibody ICC image

Immunocytochemistry: HeLa cells were blocked with 10% goat serum and then stained with ARG59110 anti-SOD3 antibody at 1 µg/ml dilution, overnight at 4°C.



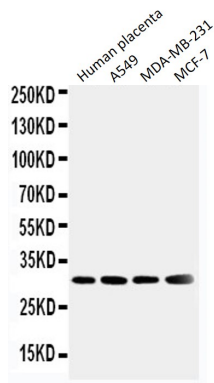
ARG59110 anti-SOD3 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Human placenta stained with ARG59110 anti-SOD3 antibody.



ARG59110 anti-SOD3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59110 anti-SOD3 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG59110 anti-SOD3 antibody WB image

Western blot: Human placenta, A549, MDA-MB-231 and MCF-7 cell lysates stained with ARG59110 anti-SOD3 antibody.