

**ARG83817**  
**Rat SOD2 ELISA Kit**

Package: 96 wells

Store at: 4°C

### Summary

Product Description	ARG83817 Rat SOD2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat SOD2 in Serum, plasma, tissue homogenates, cell lysates, cell culture supernatants and other biological fluids
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	SOD2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.625 pg/ml
Sample Type	Serum, plasma, tissue homogenates, cell lysates, cell culture supernatants and other biological fluids
Standard Range	31.25-2000 pg/mL
Sample Volume	100 µl
Alternate Names	MNSOD; Superoxide dismutase [Mn], mitochondrial; IPOB; EC 1.15.1.1; MVCD6

### Application Instructions

Assay Time	3.5 hours
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### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	Sod2
Gene Full Name	superoxide dismutase 2, mitochondrial
Background	This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]
Function	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems. [UniProt]

PTM

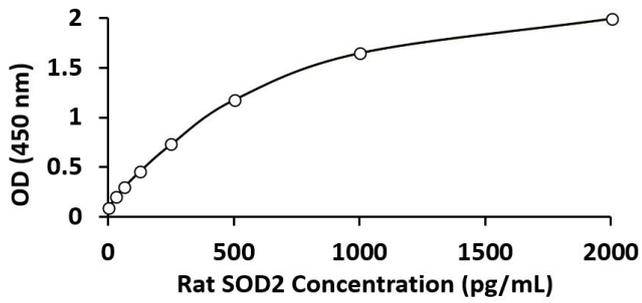
Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity. Acetylation at Lys-122 decreases enzymatic activity. Deacetylated by SIRT3 upon exposure to ionizing radiations or after long fasting (By similarity).

Cellular Localization

Mitochondrion, Mitochondrion Matrix

## Images

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ARG83817 Rat SOD2 ELISA Kit standard curve image

ARG83817 Rat SOD2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.

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