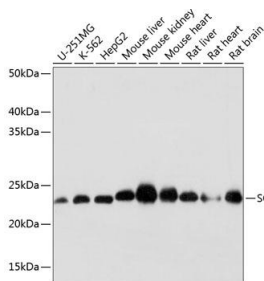


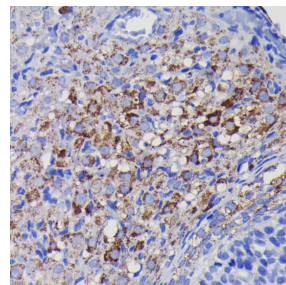
<b>Cat. No:</b>	MAB-94601
<b>Size:</b>	100 ug
<b>Clone:</b>	S2-F
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Rb
<b>Isotype:</b>	IgG
<b>Immunogen:</b>	A synthesized peptide derived from human SOD2.
<b>Reactivity:</b>	Hu, Rt, Ms
<b>Applications:</b>	Western Blot: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:50 - 1:200
<b>Molecular Weight:</b>	25kDa
<b>Purification:</b>	Aff. Pur.
<b>Synonyms:</b>	IPO-B;IPOB;MNSOD;MVCD6;Mn-SOD;SOD2

**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. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1.

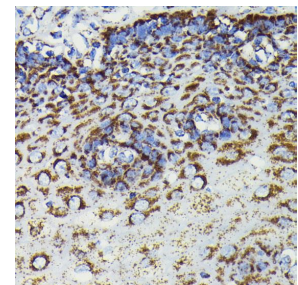
<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.



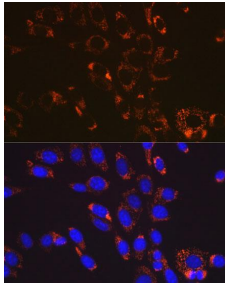
Western blot analysis of extracts of various cell lines, using SOD2 antibody at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL West Pico Plus.  
Exposure time: 1s.



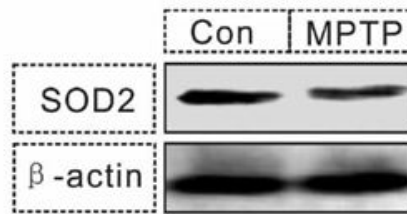
Immunohistochemistry of paraffinembedded rat ovary using SOD2 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffinembedded human esophageal using SOD2 antibody at dilution of 1:100 (40x lens).



Immunofluorescence analysis of NIH-3T3 cells using SOD2 antibody.  
Blue: DAPI for nuclear staining.



Review for SOD2 Rabbit Monoclonal Antibody  
Experiment Type: Western blot(WB)  
Sample NPCs  
Description: Western blot analysis of extracts of NPCs cells, using SOD2 Polyclonal Antibody.

## References

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Plos One

Application:WB

IF:2.804

Species:Mus musculus

PMID:24255720

Title:Cobalt protoporphyrin induces HO-1 expression mediated partially by FOXO1 and reduces mitochondria-derived reactive oxygen species production

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Biochemical And Biophysical Research Communications

Application:WB

IF:2.466

Species:Homo sapiens

PMID:26159917

Title:Rejuvenation of MPTP-induced human neural precursor cell senescence by activating autophagy

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Molecular Immunology

Application:WB

IF:3.235

Species:Mus musculus

PMID:25771181

Title:Mycobacterium tuberculosis Rv2185c contributes to nuclear factor- $\kappa$ B activation

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Scientific Reports

Application:WB

IF:4.258 Species:

Rattus norvegicus

PMID:26603550

Title:Ganoderma lucidum polysaccharide peptide prevents renal ischemia reperfusion injury via counteracting oxidative stress

References for SOD2 Rabbit mAb  
Product:SOD2 Rabbit mAb  
Journal:Biochemical And Biophysical Research Communications  
Application:WB  
IF:2.466  
Species:Mus musculus  
PMID:26903296  
Title: Mst1 regulates hepatic lipid metabolism by inhibiting Sirt1 ubiquitination in mice

References for SOD2 Rabbit mAb  
Product: SOD2 Rabbit mAb  
Journal: Frontiers in physiology  
Application: WB  
IF: 4.134  
Species: Mus musculus  
PMID: 28066264  
Title: Chronic Exercise Training Improved Aortic Endothelial and Mitochondrial Function via an AMPK $\alpha$ 2-Dependent Manner

References for SOD2 Rabbit mAb  
Product:SOD2 Rabbit mAb  
Journal:Molecular metabolism  
Application:WB  
IF:6.794  
Species:Mus musculus  
PMID:28123944  
Title:Celastrol ameliorates liver metabolic damage caused by a high-fat diet through Sirt1

References for SOD2 Rabbit mAb  
Product:SOD2 Rabbit mAb  
Journal:International Journal Of Biochemistry & Cell Biology  
Application:WB  
IF:3.503  
Species:Sus scrofa  
PMID:28583467  
Title:Leucine reduces reactive oxygen species levels via an energy metabolism switch by activation of the mTOR-HIF-1 $\alpha$  pathway in porcine intestinal epithelial cells

References for SOD2 Rabbit mAb  
Product:SOD2 Rabbit mAb  
Journal:Molecular carcinogenesis  
Application:WB, Co-IP  
IF:3.85  
Species:Mus musculus  
PMID:31066116  
Title:MARVELD1 interacting with catalase regulates reactive oxygen species metabolism and mediates the sensitivity to chemotherapeutic drugs in epithelial tumors of the reproductive system.

References for SOD2 Rabbit mAb  
Product:SOD2 Rabbit mAb  
Journal:Mediators of Inflammation  
Application:WB  
IF:3.54  
Species:Bos taurus  
PMID: 31011285  
Title: The Differential Expression of Mitochondrial Function-Associated Proteins and Antioxidant Enzymes during Bovine Herpesvirus 1 Infection: A Potential Mechanism for Virus Infection-Induced Oxidative Mitochondrial Dysfunction

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Redox Biology

Application:WB

IF:7.79

Species:Mus musculus

PMID:31704583

Title:Hydrogen sulfide attenuates cigarette smoke-induced airway remodeling by upregulating SIRT1 signaling pathway

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Cell Death & Disease

Application:WB

IF:5.95

Species:Mus musculus

PMID:32001673

Title:Overexpression of apoptosis inducing factor aggravates hypoxic-ischemic brain injury in neonatal mice

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Antioxidants (Basel, Switzerland)

Application:WB

IF:4.52

Species:Rattus norvegicus

PMID:32316287

Title:Differential Activation of Glioprotective Intracellular Signaling Pathways in Primary Optic Nerve Head Astrocytes after Treatment with Different Classes of Antioxidants

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:IUBMB Life

Application:WB

IF:3.05

Species:Mus musculus

PMID:32353215

Title:Loss of high-temperature requirement protein A2 protease activity induces mitonuclear imbalance via differential regulation of mitochondrial biogenesis in sarcopenia

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Biomedicine & Pharmacotherapy

Application:WB

IF:3.74

Species:Mus musculus

PMID:31877550

Title:LongShengZhi capsule inhibits doxorubicin-induced heart failure by anti-oxidative stress

References for SOD2 Rabbit mAb

Product:SOD2 Rabbit mAb

Journal:Laboratory Investigation; a Journal of Technical Methods and Pathology

Application:WB

IF:3.68

Species:Mus musculus

PMID:31641228

Title:Polydatin protects against lipopolysaccharide-induced endothelial barrier disruption via SIRT3 activation

References for SOD2 Rabbit mAb

SOD2 Rabbit mAb

Journal:Chinese Medical Journal

Application:WB

IF:1.555

Species:Mus musculus

PMID:28937042

Title:Sirtuin 1 Mediates Hydrogen Sulfide-induced Cytoprotection Effects in Neonatal Mouse Cardiomyocytes.

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