

Anti-SOD1 Rabbit pAb



WL01846

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-SOD1 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:500-1:1000
	IHC	1:100-1:400
	IF	1:200

Cellular localization Cytoplasm, Nucleus

Pack size 50/100/200/500/1000µl

Storage Store at -20°C. **Avoid freeze/thaw cycles.**

Storage buffer Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background

The SOD1 gene locus is on chromosome 21 in a region affected in Down Syndrome. SOD1, Cu/Zn superoxide dismutase, is a major antioxidant enzyme that catalyzes the conversion of superoxide anion to hydrogen peroxide and molecular oxygen. In addition, over 100 distinct SOD1 inherited mutations have been identified in the familial form of amyotrophic lateral sclerosis (ALS), a progressive degenerative disease of motor neurons. Mutant SOD1 proteins become misfolded and consequently oligomerize into high molecular weight species that aggregate and end up in proteinaceous inclusions.

Immunogen

Polyclonal antibody is produced by immunizing animals with a recombinant protein of SOD1.

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

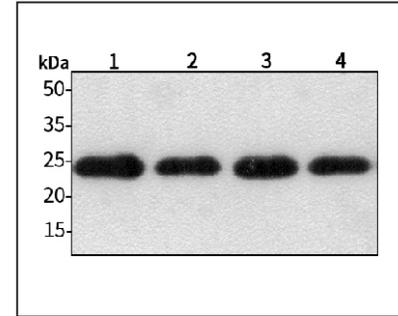
Anti-SOD1 Rabbit pAb



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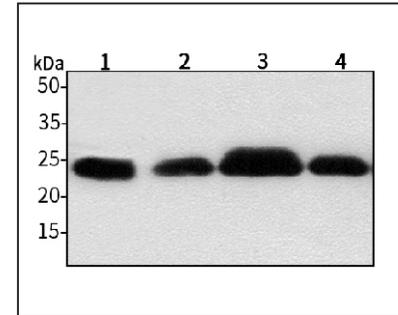
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Product Images



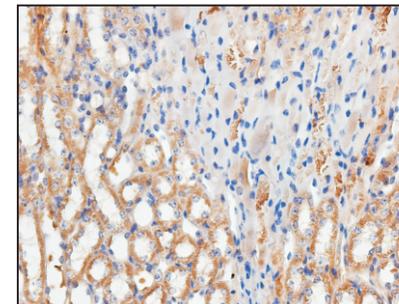
Western blot-Anti-SOD1 pAb

Lane 1: Human HepG2 cell lysate
 Lane 2: Human HeLa cell lysate
 Lane 3: Human BGC-823 cell lysate
 Lane 4: Human MGC-823 cell lysate
 All lanes: Anti-SOD1 at 1:1000 dilution
 Lysates/proteins at 20-50 µg per lane.
 Predicted band size: 16 kDa
 Observed band size: 23 kDa



Western blot-Anti-SOD1 pAb

Lane 1: Mouse brain tissue lysate
 Lane 2: Mouse liver tissue
 Lane 3: Rat kidney tissue lysate
 Lane 4: Rat heart tissue lysate
 All lanes: Anti-SOD1 at 1:1000 dilution
 Lysates/proteins at 20-50 µg per lane.
 Predicted band size: 16 kDa
 Observed band size: 23 kDa



Immunohistochemistry-Anti-SOD1 pAb

Immunohistochemical analysis of paraffin-embedded mouse kidney using anti-SOD1 Rabbit Antibody at 1:400 dilution.
 Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

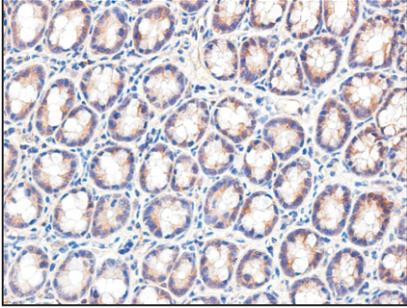
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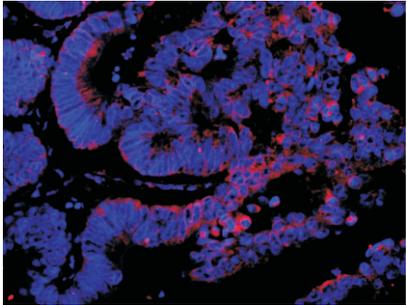
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Immunohistochemistry-Anti-SOD1 pAb

Immunohistochemical analysis of paraffin-embedded rat colon using anti-SOD1 Rabbit Antibody at 1:200 dilution.

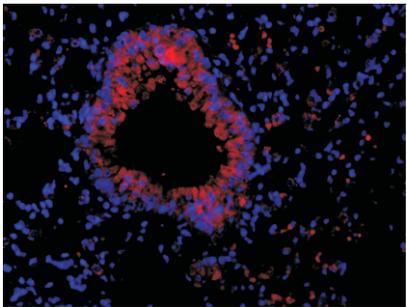
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-SOD1 pAb

Immunofluorescence analysis of paraffin-embedded human rectal cancer using anti-SOD1 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-SOD1 pAb

Immunofluorescence analysis of paraffin-embedded mouse lung using anti-SOD1 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

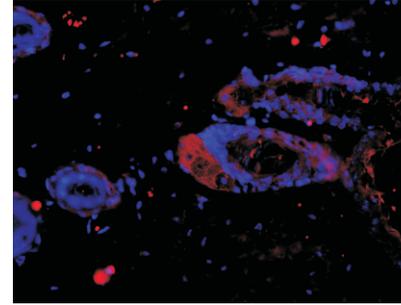
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Immunofluorescence-Anti-SOD1 pAb

Immunofluorescence analysis of paraffin-embedded rat skin using anti-SOD1 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0