

Datasheet for ABIN3020855
anti-SOD1 antibody (AA 1-154)

6 Images

2 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	SOD1
Binding Specificity:	AA 1-154
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-154 of human SOD1 (NP_000445.1).
Sequence:	MATKAVCVLK GDGPVQGIIN FEQKESNGPV KVGSIKGLT EGLHGFHVHE FGDNTAGCTS AGPHFNPLSR KHGGPKDEER HVGDLGNVTA DKDGVADVSI EDSVISLSGD HCIIGRTLTV HEKADDLGKG GNEESTKTGN AGSRLACGVI GIAQ
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	SOD1
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Target Details

Alternative Name:	SOD1 (SOD1 Products)
Background:	<p>The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.,SOD1,ALS,ALS1,HEL-S-44,IPOA,SOD,hSod1,homodimer,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Endocrine & Metabolism,Neuroscience,Neurodegenerative Diseases,SOD1</p>
Molecular Weight:	15 kDa
Gene ID:	6647
UniProt:	P00441
Pathways:	Sensory Perception of Sound , Transition Metal Ion Homeostasis

Application Details

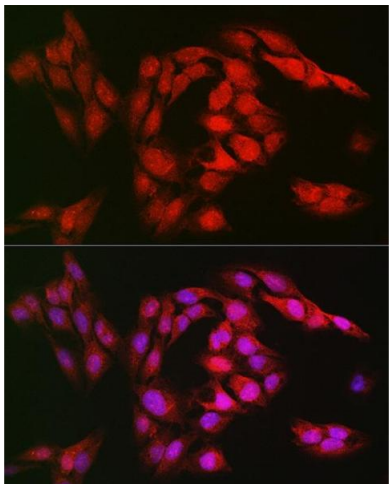
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

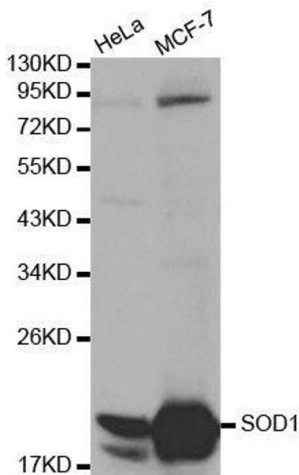
Product cited in: Sun, Ji, Guo, Liu, Wang, Ma, Hu, Wang, Jiang: "Early adventitial activation characterized by NADPH oxidase expression and neovascularization in an aortic transplantation model." in: **Experimental and molecular pathology**, Vol. 100, Issue 1, pp. 67-73, (2016) ([PubMed](#)).

Images



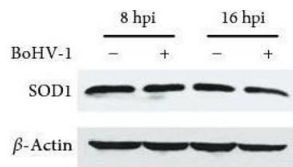
Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using SOD1 Rabbit pAb (ABIN3020854, ABIN3020855, ABIN3020856 and ABIN6213758) at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.



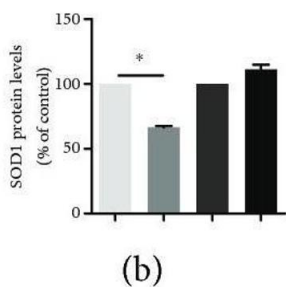
Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using SOD1 antibody.



Western Blotting

Image 3. The effects of BoHV-1 infection on the gene expression of antioxidant enzymes. (a, c, e, and g) The total RNA was prepared at 8 and 16h after infection in MDBK cells, and the mRNA levels of SOD1 (a), SOD2 (c), CAT (e), and GPX4 (g) were measured by qRT-PCR. Each analysis was compared with that of uninfected control which was arbitrarily set as 100 % . Data represent three independent experiments. Significance was assessed with the Student t-



test ($p < 0.05$). (b, d, f, and h) MDBK cells in 60mm dishes were mock infected or infected with BoHV-1 at an MOI of 1 for 8 and 16h. The cell lysates were then prepared for Western blots to detect the expression of SOD1 (b), SOD2 (d), CAT (f), and GPX4 (h) using SOD1 polyclonal antibody, SOD2 polyclonal antibody, CAT polyclonal antibody, and GPX4 polyclonal antibody. The band intensity was analyzed with software ImageJ. Each analysis was compared with that of uninfected control which was arbitrarily set as 100 %. Data represent two independent experiments. Significance was assessed with the Student t-test ($p < 0.05$), ns: not significant. - figure provided by CiteAb. Source: PMID31011285

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3020855.