

SOD1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to a region within amino acids 75 and 154 of Human SOD1
Form	Liquid
Concentration	0.21 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544716

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:10,000	7 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	1 Publication
ChIP assay (ChIP)	-	1 Publication

Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, NT2D1, PC-3, SK-N-SH, Rat brain, U87-MG.

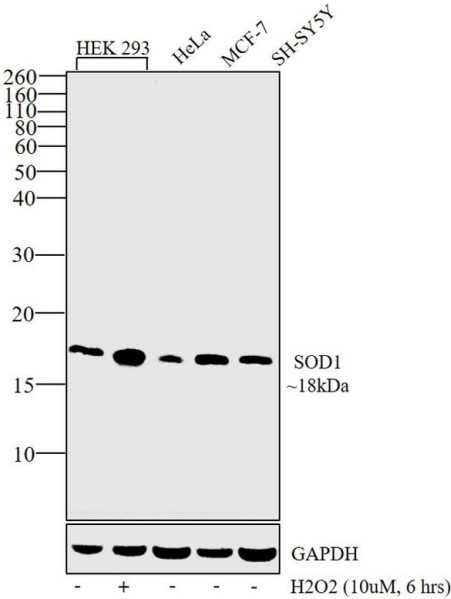
Predicted reactivity: Mouse (100%), Rat (100%), Chimpanzee (100%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For SOD1 Polyclonal Antibody

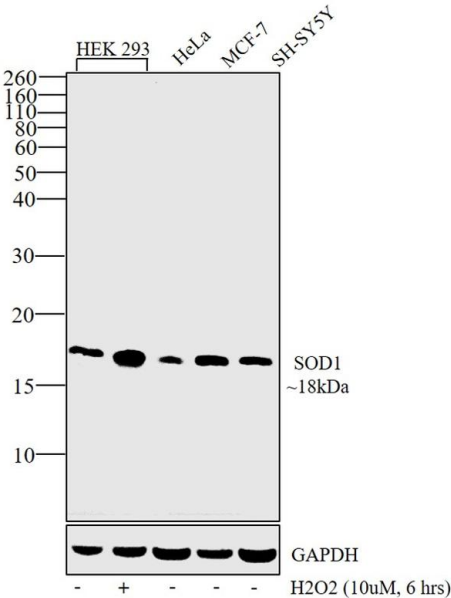
SOD1 Antibody (PA5-27240)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis of SOD1 using SOD1 Polyclonal Antibody (Product # PA5-27240) shows an increase in expression upon treatment with H2O2 in HEK-293 cells. {TM}



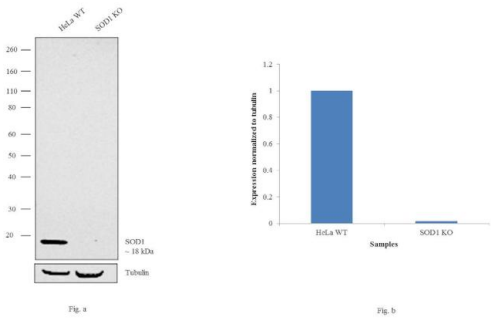
SOD1 Antibody (PA5-27240) in WB

Western blot analysis was performed on whole cell extracts of HEK-293 (Lane 1), HEK-293 treated with H2O2 (10uM, 6hrs) (Lane 2), HeLa (Lane 3), MCF-7 (Lane 4), and SH-SY5Y (Lane 5). The blot was probed with SOD1 Polyclonal Antibody (Product # PA5-27240, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 18kDa band corresponding to SOD1 was observed across the panel and was upregulated upon H2O2 treatment in HEK-293 cells.



SOD1 Antibody (PA5-27240) in WB

Western blot analysis of SOD1 was performed by loading 30 µg of HeLa (Lane 1), HeLa - SOD1 knockout (Lane 2) whole cell lysate. The blot was probed with Anti-SOD1 Polyclonal Antibody (Product # PA5-27240, 1:1000 dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). Loss of signal upon CRISPR mediated knockout (KO) confirms that antibody is specific to SOD1.



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Western Blot (7)

<p>Antioxidants (Basel, Switzerland)</p> <p>Hatched Eggshell Membrane Can Be a Novel Source of Antioxidant Hydrolysates to Protect against H₂O₂-Induced Oxidative Stress in Human Chondrocytes.</p> <p>"PA5-27240 was used in Western Blotting to provides a theoretical basis for the value-added application of hatched ESM waste to produce antioxidant hydrolysates and indicates their potential as functional food and pharmaceuticals."</p> <p>Authors: Zhu L, Ma M, Ahn DU, Guyonnet V, Wang L, Zheng Y, He Q, Xiong H, Huang X</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:2000</p>
<p>Frontiers in nutrition</p> <p>Preventive Effect of <i>Limosilactobacillus fermentum</i> SCHY34 on Lead Acetate-Induced Neurological Damage in SD Rats.</p> <p>"PA5-27240 was used in Western Blotting to show that L. fermentum SCHY34 showed a great biological scavenging and potential effect on alleviating the toxicity of lead ions."</p> <p>Authors: Long X, Wu H, Zhou Y, Wan Y, Kan X, Gong J, Zhao X</p>	<p>Year 2022</p> <p>Species Rat</p>

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Immunohistochemistry (1)

<p>Scientific reports</p> <p>Expression of antioxidant enzymes in lesions of multiple sclerosis and its models.</p> <p>"PA5-27240 was used in Immunohistochemistry-immunofluorescence to investigate whether antioxidant enzyme elevation in mouse models of neurodegeneration corresponds to their expression in human diseases such as multiple sclerosis."</p> <p>Authors: Moezzi D, Dong Y, Jain RW, Lozinski BM, Ghorbani S, D'Mello C, Wee Yong V</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
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Immunohistochemistry (Frozen) (1)

<p>Scientific reports</p> <p>Expression of antioxidant enzymes in lesions of multiple sclerosis and its models.</p> <p>"PA5-27240 was used in Immunohistochemistry-immunofluorescence to investigate whether antioxidant enzyme elevation in mouse models of neurodegeneration corresponds to their expression in human diseases such as multiple sclerosis."</p> <p>Authors: Moezzi D, Dong Y, Jain RW, Lozinski BM, Ghorbani S, D'Mello C, Wee Yong V</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
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ChIP (1)

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