

# SOD2 Polyclonal Antibody

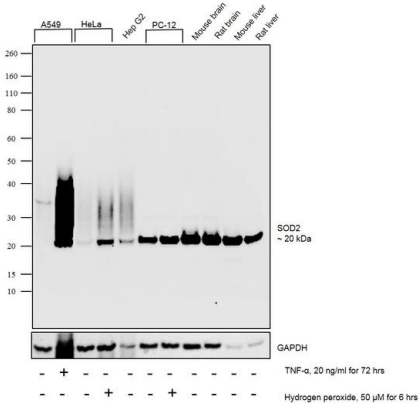
Product Details	
Size	50 µg
Species Reactivity	Bovine, Dog, Hamster, Human, Mouse, Non-human primate, Sheep, Pig, Rabbit, Rat, Xenopus
Published Species	Bovine, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Full length protein (Human).
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	0.05M sodium phosphate, pH 7.2, with 0.1% BSA, 50% glycerol
Contains	0.1% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2286296

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:5,000	2 Publications
Immunohistochemistry (IHC)	1 µg/mL	-
Immunocytochemistry (ICC/IF)	1:100	-
Immunoprecipitation (IP)	10 µg/mL	-

## Product Specific Information

Rat brain tissue extract was used as a positive control.

## Product Images For SOD2 Polyclonal Antibody

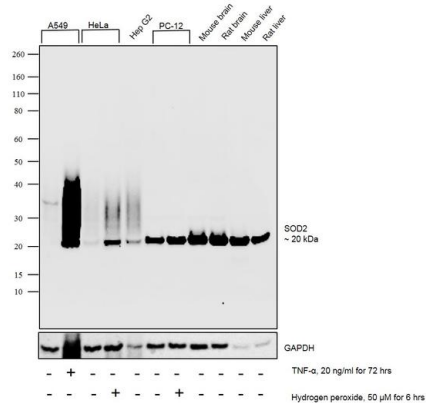


### SOD2 Antibody (PA1-31072)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using SOD2 Polyclonal Antibody (Product # PA1-31072), shows increased expression of proteins in A549 cells upon TNF treatment and in HeLa cells upon hydrogen peroxide treatment. {TM}

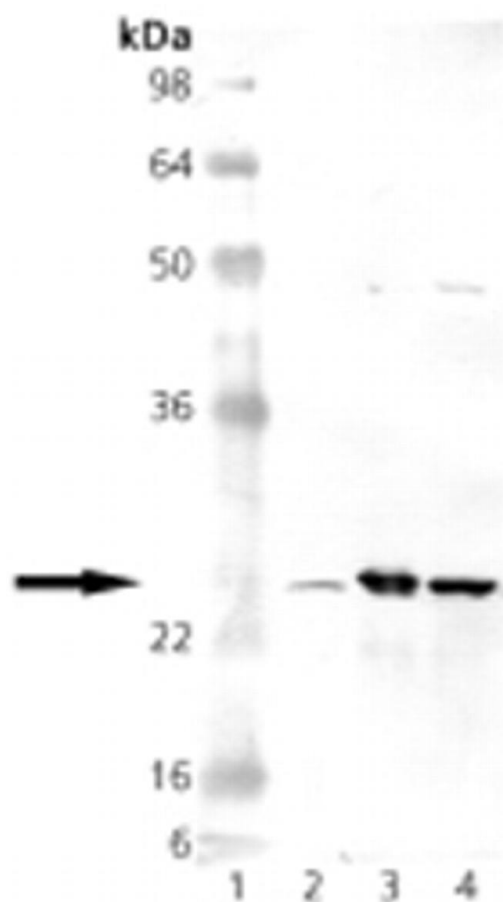
### SOD2 Antibody (PA1-31072) in WB

Western blot was performed using Anti-SOD2 Polyclonal Antibody (Product # PA1-31072) and ~20 kDa band corresponding to SOD2 was observed in all cell lines, tissues tested, induced after TNF treatment in A549 cells and Hydrogen peroxide treatment in HeLa, PC-12 cells. Whole cell extracts (40 µg lysate) of A549 (Lane 1), A549 treated with TNF (20 ng/mL for 72 hrs) (Lane 2), HeLa (Lane 3) HeLa treated with Hydrogen peroxide (50 µM for 6 hrs) (Lane 4), Hep G2 (Lane 5), PC-12 (Lane 6), PC-12 treated with Hydrogen peroxide (50 µM for 6 hrs) (Lane 7), Mouse brain (Lane 8), Rat brain (Lane 9), Mouse liver (Lane 10) and Rat liver (Lane 11) were electrophoresed using NuPAGE® 4-12% Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1,000) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



### SOD2 Antibody (PA1-31072) in WB

Western blot analysis of MnSOD using SOD2 Polyclonal Antibody (Product # PA1-31072): Lane 1: MW Marker. Lane 2: HeLa Cell Lysate. Lane 3: Mouse Brain Tissue Extract. Lane 4: Rat Brain Tissue Extract.



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Western Blot (2)

<p>Genes</p> <p><b>Effects of BPA, BPS, and BPF on Oxidative Stress and Antioxidant Enzyme Expression in Bovine Oocytes and Spermatozoa.</b></p> <p>"PA1-31072 was used in Western Blotting to support BPA's ability to alter oxidative stress in oocytes and, to a lesser extent, in sperm."</p> <p>Authors: Nguyen M,Sabry R,Davis OS,Favetta LA</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Bovine</p> <p>Dilution</p> <p>1:1,000</p>
<p>Antioxidants &amp; redox signaling</p> <p><b>Inhibition of NFE2L2-Antioxidant Response Element Pathway by Mitochondrial Reactive Oxygen Species Contributes to Development of Cardiomyopathy and Left Ventricular Dysfunction in Chagas Disease.</b></p> <p>"PA1-31072 was used in Western Blotting to report that mtROS inhibition of NFE2L2/ARE pathway constitutes a key mechanism in signaling the fibrotic gene expression and evolution of chronic cardiomyopathy and reducing heart failure in Chagas disease."</p> <p>Authors: Wen JJ,Porter C,Garg NJ</p>	<p>Year</p> <p>2017</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:5000</p>

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