

# SOD2 Polyclonal Antibody

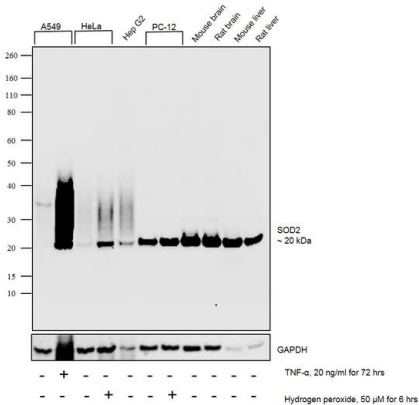
Product Details	
Size	50 µg
Species Reactivity	Bovine, Dog, Hamster, Human, Mouse, Non-human primate, Sheep, Pig, Rabbit, Rat, Xenopus
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Full length protein (Human).
Form	Liquid
Concentration	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

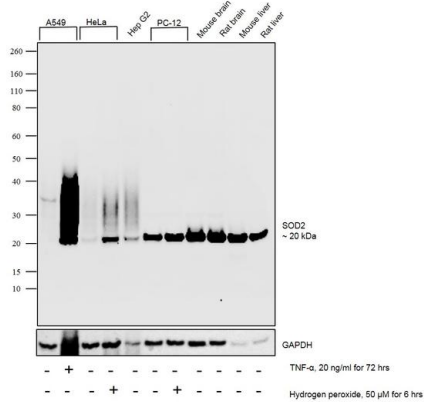


### SOD2 Antibody (PA1-31072)

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}

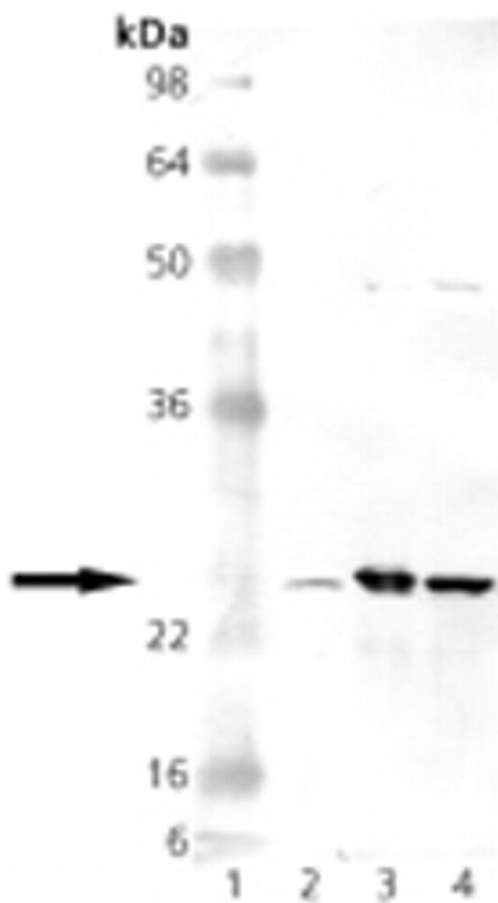
### SOD2 Antibody (PA1-31072) in WB

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)

Genes	Year 2022
Effects of BPA, BPS, and BPF on Oxidative Stress and Antioxidant Enzyme Expression in Bovine Oocytes and Spermatozoa.	
"Published figure using SOD2 polyclonal antibody (Product # PA1-31072) in Western Blot"	
Authors: Nguyen M,Sabry R,Davis OS,Favetta LA	
Antioxidants & redox signaling	Year 2017
Inhibition of NFE2L2-Antioxidant Response Element Pathway by Mitochondrial Reactive Oxygen Species Contributes to Development of Cardiomyopathy and Left Ventricular Dysfunction in Chagas Disease.	Species Mouse
"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."	Dilution 1:5000
Authors: Wen JJ,Porter C,Garg NJ	

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