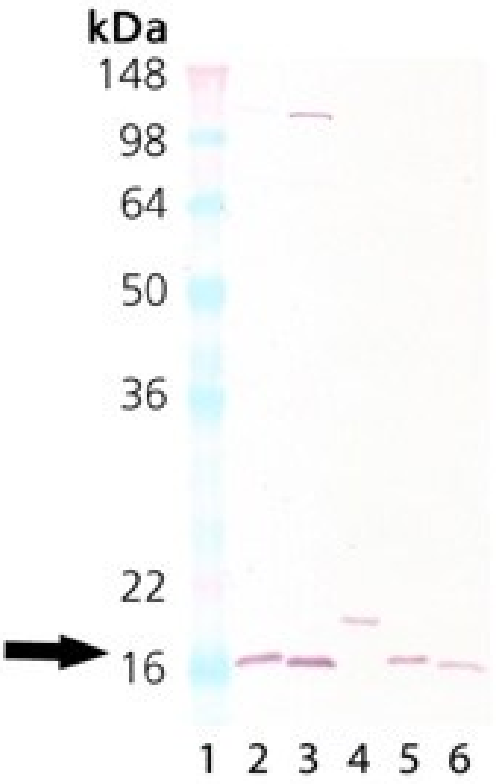
# Cu/Zn SOD polyclonal antibody (biotin conjugate)

Superoxide dismutase (SOD) is responsible for the elimination of cytotoxic active oxygen by catalyzing the dismutation of the superoxide radical to oxygen and hydrogen peroxide. There are three SOD isoenzymes in mammalian cells: extracellular SOD (EC SOD, SOD-3); copper and zinc-containing SOD (Cu/Zn SOD, SOD-1); and manganese-containing SOD (Mn SOD, SOD-2). The Cu/Zn form binds Cu and Zn ions and exists as a soluble 32kDa homodimer in the cytosol. Mutations in the SOD-1 gene accounts for approximately 20% of amyelotrophic lateral sclerosis (ALS) or 'Lou Gehrig disease,' a neurodegenerative disorder characterized by the death of motor neurons in the brain, brainstem, and spinal cord that results in fatal paralysis.

**This antibody is covered by our Worry-Free Guarantee.**

## Manuals, SDS & CofA

View Online »




Western Blot Analysis of Cu/Zn SOD: Lane 1:MWM Lane 2: Rat liver tissue lysate, Lane 3: Mouse liver tissue lysate, Lane 4: HeLa, (cell lysate) (Prod No. ADI-LYC-HL100), Lane 5: Brain (mouse), (tissue extract) (Prod No. ADI-LYT-MB100), Lane 6: Brain (rat), (tissue extract) (Prod No. ADI-LYT-RB100).

## Handling & Storage

| | |
|---|---|
| **Handling** | Avoid freeze/thaw cycles. |
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | Superoxide Dismutase (Cu-Zn), Superoxide dismutase 1, SOD1 |
| **Application** | IF, IHC (PS), IP, WB |
| **Application Notes** | Detects a band of ~23kDa (human) or ~19kDa (mouse and rat) by Western blot. |
| **Formulation** | Liquid. In PBS containing 50% glycerol and 0.09% sodium azide. |
| **Host** | Rabbit |
| **Immunogen** | Native human Cu/Zn SOD. |
| **Purity Detail** | Protein A-affinity purified. |
| **Recommendation Dilutions/Conditions** | Western Blot (1:1,000, colorimetric)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application. |
| **Source** | Purified from rabbit serum. |
| **Species Reactivity** | Clam, Human, Mouse, Rat |
| **UniProt ID** | P00441 |
| **Worry-free Guarantee** | **This antibody is covered by our Worry-Free Guarantee .** |

**Last modified: May 29, 2024**

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.