

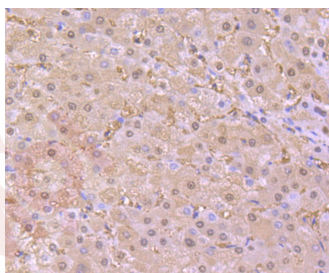
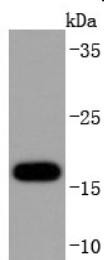
Anti-SOD1 Antibody (4Y683)

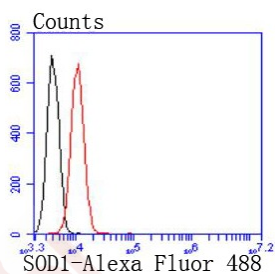
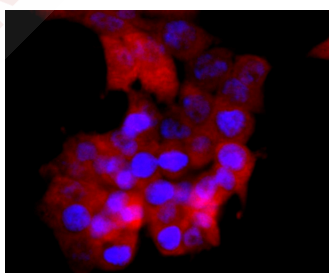
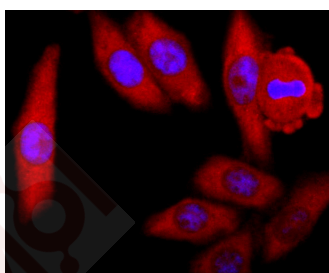
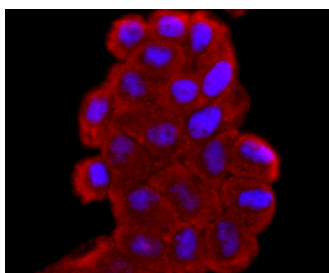
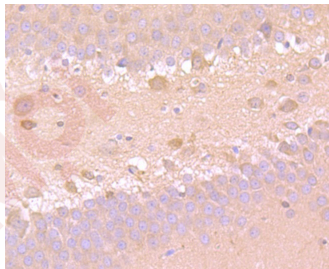
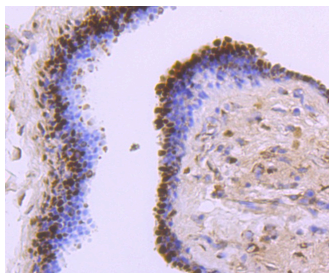
Product Details

Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 16 kDa.
Clone:	4Y683
Purification:	ProA affinity purified

Applications

1. Western blot analysis of SOD1 on MCF-7 cells lysates using anti-SOD1 antibody at 1/1,000 dilution.
 2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-SOD1 antibody. Counter stained with hematoxylin.
 3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-SOD1 antibody. Counter stained with hematoxylin.
 4. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-SOD1 antibody. Counter stained with hematoxylin.
- Verified Activity:
5. ICC staining SOD1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
 6. ICC staining SOD1 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
 7. ICC staining SOD1 in 293T cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
 8. Flow cytometric analysis of Jurkat cells with SOD1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM, ICC/IF, IHC, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P00441

Research Background

Cu-Zn superoxide dismutase-1 (SOD-1) is a well characterized cytosolic scavenger of oxygen free radicals that requires copper and zinc binding to potentiate its enzymatic activity. Enzymatically, SOD-1 facilitates the dismutation of oxygen radicals to hydrogen peroxide and also catalyzes pro-oxidant reactions, which include the peroxidase activity and hydroxyl radical generating activity. SOD-1 is ubiquitously expressed in somatic cells and functions as a homodimer. Defects in the gene encoding SOD-1 have been implicated in the progression of neurological diseases, including amyotrophic lateral sclerosis (ALS), a neurodegenerative disease characterized by the loss of spinal motor neurons, Down syndrome and Alzheimer's disease. In familial ALS, several mutations in SOD-1 predominate, resulting in the loss of zinc binding, the loss of scavenging activity of SOD-1, and correlate with an increase in neurotoxicity and motor neuron death.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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