

Anti-SOD1 Antibody (7V772)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 17 kDa. Actual: 15 kDa.
Clone:	7V772
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOD1) Monoclonal Antibody, Unconjugated (TMAB-13027) at 1:300 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOD1) Monoclonal Antibody, Unconjugated (TMAB-13027) at 1:300 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOD1) Monoclonal Antibody, Unconjugated (TMAB-13027) at 1:300 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOD1) Monoclonal Antibody, Unconjugated (TMAB-13027) at 1:300 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (SOD1) Monoclonal Antibody, Unconjugated (TMAB-13027) at 1:300 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
6. Sample:
 - Lane 1: Mouse Cerebrum tissue lysates
 - Lane 2: Mouse Liver tissue lysates
 - Lane 3: Mouse Placenta tissue lysates
 - Lane 4: Rat Cerebrum tissue lysates
 - Lane 5: Rat Placenta tissue lysates
 - Lane 6: Human HepG2 cell lysates
 - Lane 7: Human HeLa cell lysates
 - Lane 8: Human Jurkat cell lysates
 - Lane 9: Human MCF-7 cell lysatesPrimary: Anti-SOD1 (TMAB-13027) at 1/1000 dilution

Verified Activity:

A DRUG SCREENING EXPERT

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 17 kDa
Observed band size: 15 kDa

Application: WB,IHC-P,IF,IHC-Fr

Recommended WB: 1:500-1000; IHC-P: 1:100-500; IF: 1:100-500; IHC-Fr: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human SOD1

Antigen Species: Human

Gene ID: 6647

Uniprot ID: P00441

Research Background

The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq, Jul 2008]

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