

Anti-SOD2 Antibody (3S444)

Product Details

Ig Type:	IgG1, k
Reactivity:	Human, Mouse
Molecular Weight:	Theoretical: 22 kDa. Actual: 22 kDa.
Clone:	3S444
Purification:	Protein G purified

Applications

1. Sample:

Lane 1: Hela (Human) Cell Lysate at 30 µg

Lane 2: 293T (Human) Cell Lysate at 30 µg

Lane 3: Raw264.7 (Mouse) Cell Lysate at 30 µg

Primary: Anti-SOD2 (TMAB-13028) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 22 kD

Observed band size: 22 kD

2. Paraformaldehyde-fixed, paraffin embedded (Human 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; Antibody incubation with (SOD2) Monoclonal Antibody, Unconjugated (TMAB-13028) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); 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; Antibody incubation with (SOD2) Monoclonal Antibody, Unconjugated (TMAB-13028) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (Human pancreatic cancer); 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; Antibody incubation with (SOD2) Monoclonal Antibody, Unconjugated (TMAB-13028) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.

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

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 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: Recombinant Protein: human SOD protein

Antigen Species: Human

Gene ID: 6648

Uniprot ID: P04179

Research Background

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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