BOSTER BIOLOGICAL TECHNOLOGY
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Anti-SOD2 Antibody

Catalog Number: M33970

About SOD2

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.

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Overview

Product Name	Anti-SOD2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-SOD2 Antibody (Catalog # M33970). Tested in WB, IHC-P application(s). This antibody reacts with Human.
Application	IHC-P, WB
Clonality	Monoclonal 37CT127.5.11.6
Formulation	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Mouse
Uniprot ID	P04179

Technical Details

Immunogen	Purified His-tagged SOD protein (Fragment) was used to produced this monoclonal antibody.
Predicted Reactive Species	Bovine
Isotype	IgG1kappa
Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.

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Suggested Dilutions	WB: 1:2000 IHC-P: 1:10-1:50

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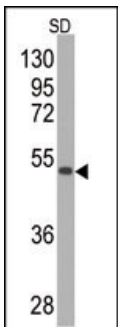
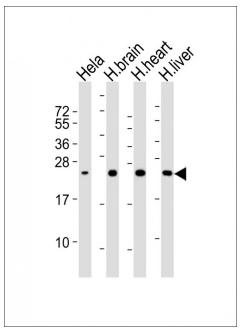
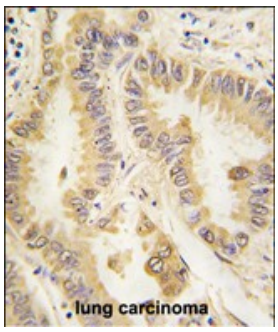
Anti-SOD2 Antibody (M33970) Images



Western blot analysis of anti-SOD2 Monoclonal Antibody by SOD2-GST fusion protein (GST MW=26 kD. SOD2-GST fusion protein (arrow) was detected using the purified Mab. (1:2000)



All lanes : Anti-SD Antibody at 1:2000 dilutionLane 1: Hela whole cell lysatesLane 2: human brain lysatesLane 3: human heart lysatesLane 4: human liver lysatesLysates/proteins at 20 ug per lane. SecondaryGoat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilutionPredicted band size : 25 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with SOD2 Monoclonal Antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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