

Product datasheet for **AM11059PU-N**

SOD2 Mouse Monoclonal Antibody [Clone ID: 37CT127.5.11.6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	37CT127.5.11.6
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/4000. Western blotting: 1/2000. Immunohistochemistry on Paraffin Sections: 1/10-1/50.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified His-tagged SOD protein (Fragment).
Specificity:	This antibody is specific to SOD2.
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	24722 Da (Calculated)
Gene Name:	superoxide dismutase 2, mitochondrial
Database Link:	Entrez Gene 6648 Human P04179



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Background:

SOD2 is a member of the iron/manganese superoxide dismutase family. It is 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.

Synonyms:

Superoxide dismutase Mn

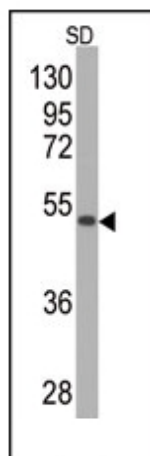
Product images:

Figure 1. 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).

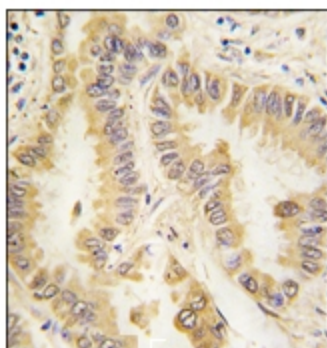


Figure 2. Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with SOD2 Monoclonal Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry. Clinical relevance has not been evaluated.