

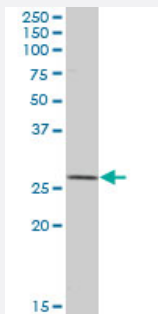
MaxPab®

SOD2 MaxPab mouse polyclonal antibody (B02)

Catalog # H00006648-B02

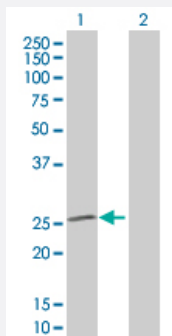
Size 50 uL

Applications



Western Blot (Tissue lysate)

SOD2 MaxPab polyclonal antibody. Western Blot analysis of SOD2 expression in human spleen.



Western Blot (Transfected lysate)

Western Blot analysis of SOD2 expression in transfected 293T cell line ([H00006648-T02](#)) by SOD2 MaxPab polyclonal antibody.

Lane 1: SOD2 transfected lysate(24.42 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human SOD2 protein.

Immunogen

SOD2 (NP_001019636, 1 a.a. ~ 222 a.a) full-length human protein.

Sequence

MLSRVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAYVNNLNVT
EEKYQEALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKRDFGSFDKF
KEKLTAASVGVQSGSGWGLGFNKERGHLQIAACPNQDPLQGTGTLIPLLIDVWEHAYYLQYKNV
RPDYLKAIWNVINWENVTERYMACKK

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (90); Rat (88)
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Quality Control Testing	Antibody reactive against mammalian transfected lysate.
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Storage Buffer	No additive
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Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
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Note	For IHC and IF applications, antibody purification with Protein A will be needed prior to use.
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Applications

- Western Blot (Tissue lysate)

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[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of SOD2 expression in transfected 293T cell line ([H00006648-T02](#)) by SOD2 MaxPab polyclonal antibody.

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — SOD2

Entrez GeneID	6648
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GeneBank Accession#	NM_001024465
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Protein Accession#	NP_001019636
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Gene Name	SOD2
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Gene Alias	IPO-B, MNSOD, Mn-SOD
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Gene Description	superoxide dismutase 2, mitochondrial
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Omim ID	147460
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Gene Ontology	Hyperlink
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Gene Summary

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]

Other Designations

Mn superoxide dismutase|OTTHUMP00000017530|OTTHUMP00000017531|indophenoloxidase B|manganese superoxide dismutase|manganese-containing superoxide dismutase|mangano-superoxide dismutase

Publication Reference

- [Compartmentalized oxidative stress in dopaminergic cell death induced by pesticides and complex I inhibitors: Distinct roles of superoxide anion and superoxide dismutases.](#)

Rodriguez-Rocha H, Garcia-Garcia A, Pickett C, Sumin L, Jones J, Chen H, Webb B, Choi J, Zhou Y, Zimmerman MC, Franco R.

Free Radical Biology & Medicine 2013 Aug; 61:370.

Application: WB-Tr, Human, SK-N-SH cells

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