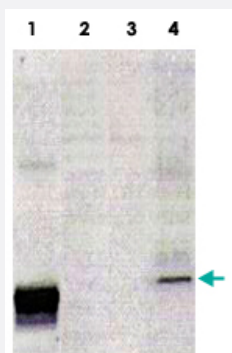


SOD3 monoclonal antibody, clone 4GG11G6

Catalog # MAB6644

Size 100 ug

Applications



Western Blot

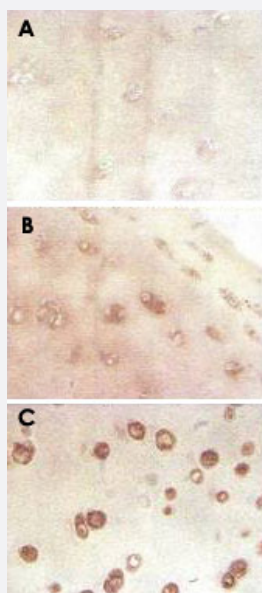
Western blot analysis from human cartilage with SOD3 monoclonal antibody, clone 4GG11G6 (Cat # MAB6644).

Lane 1, recombinant SOD3 protein.

Lane 2, human liver.

Lane 3, human lung.

Lane 4, human cartilage.



Immunohistochemistry

Immunohistochemical analysis of human cartilage with SOD3 monoclonal antibody, clone 4GG11G6 (Cat # MAB6644).

Image A, control.

Image B, young.

Image C, cartilage with osterarthritis.

Specification

Product Description Mouse monoclonal antibody raised against native SOD3.

Immunogen Native purified SOD3 from human aortas.

Host Mouse

Reactivity	Human, Mouse, Rat
Specificity	Detects EC SOD at ~35KDa.
Form	Liquid
Isotype	IgG1, kappa
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:100) Immunocytochemistry (1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis from human cartilage with SOD3 monoclonal antibody, clone 4GG11G6 (Cat # MAB6644).

Lane 1, recombinant SOD3 protein.

Lane 2, human liver.

Lane 3, human lung.

Lane 4, human cartilage.

- Immunohistochemistry

Immunohistochemical analysis of human cartilage with SOD3 monoclonal antibody, clone 4GG11G6 (Cat # MAB6644).

Image A, control.

Image B, young.

Image C, cartilage with osterarthritis.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SOD3

Entrez GeneID	6649
Gene Name	SOD3
Gene Alias	EC-SOD, MGC20077

Gene Description	superoxide dismutase 3, extracellular
Omim ID	185490
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. The product of this gene is thought to protect the brain, lungs, and other tissues from oxidative stress. The protein is secreted into the extracellular space and forms a glycosylated homotetramer that is anchored to the extracellular matrix (ECM) and cell surfaces through an interaction with heparan sulfate proteoglycan and collagen. A fraction of the protein is cleaved near the C-terminus before secretion to generate circulating tetramers that do not interact with the ECM. [provided by RefSeq]
Other Designations	OTTHUMP00000158715

Publication Reference

- [Extracellular superoxide dismutase and oxidant damage in osteoarthritis.](#)

Regan E, Flannelly J, Bowler R, Tran K, Nicks M, Carbone BD, Glueck D, Heijnen H, Mason R, Crapo J.
Arthritis and Rheumatism 2005 Nov; 52(11):3479.

Application: IHC-P, S-ELISA, WB-Ti, Human, Articular cartilage

- [Synthesis and processing of the precursor for human mangano-superoxide dismutase.](#)

Wispe JR, Clark JC, Burhans MS, Kropp KE, Korfhagen TR, Whitsett JA.
Biochimica et Biophysica Acta 1989 Jan; 994(1):30.

Application: IP, RIA, WB-Tr, Human, HepG2 cells, Rabbit reticulocytes

- [Biosynthesis and regulation of superoxide dismutases.](#)

Hassan HM.
Free Radical Biology & Medicine 1988 Jan; 5(5-6):377.

Application: WB, Human, Plant, Rat, Yeast, Endothelial cells, Plant cells, Rat lung, Yeast cells

Disease

- [Acute Lung Injury](#)

- [Alzheimer disease](#)

- [Arthritis](#)

- [Asbestosis](#)
- [Atherosclerosis](#)
- [Behcet Syndrome](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Chorioamnionitis](#)
- [Cognition](#)
- [Coronary Artery Disease](#)
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- [Prostate cancer](#)
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- [Pulmonary Disease](#)
- [Pulmonary Emphysema](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)