Datasheet for ABIN969412

anti-SOD1 antibody

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Overview

Quantity:	100 µL
Target:	SOD1
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SOD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human SOD1 expressed in E. coli.
Clone:	6F5
Isotype:	IgG1
Purification:	purified

Target Details

Target:	SOD1
Alternative Name:	SOD1 (SOD1 Products)
Background:	Description: SOD1 (superoxide dismutase 1, soluble), also known as ALS. The protein binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen

Target Details

	and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis (ALS), a progressive degenerative disease of motor neurons. Rare transcript variants have been reported for this gene. Aliases: ALS, SOD, ALS1, IPOA, homodimer
Molecular Weight:	18 kDa
Gene ID:	6647
HGNC:	6647
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

Publications

Product cited in:	Gertych, Oh, Wawrowsky, Weisenberger, Tajbakhsh: "3-D DNA methylation phenotypes correlate with cytotoxicity levels in prostate and liver cancer cell models." in: **BMC pharmacology & toxicology**, Vol. 14, pp. 11, (2013) (PubMed). Tajbakhsh: "Covisualization of methylcytosine, global DNA, and protein biomarkers for In Situ 3D DNA methylation phenotyping of stem cells." in: **Methods in molecular biology (Clifton, N.J.)**, Vol. 1052, pp. 77-88, (2013) (PubMed).

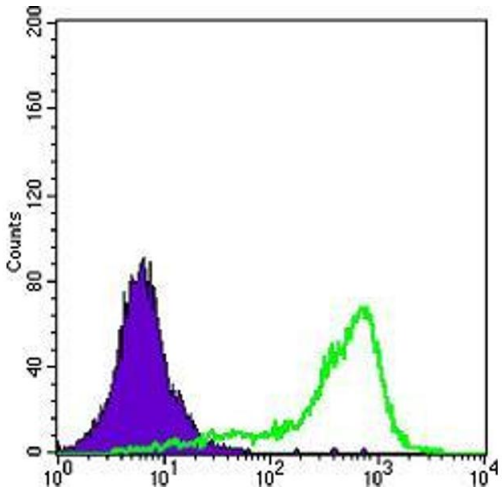
Publications

Fukuda, Ichiyanagi, Yamada, Go, Udono, Wada, Maeda, Soejima, Saitou, Ito, Sasaki: "Regional DNA methylation differences between humans and chimpanzees are associated with genetic changes, transcriptional divergence and disease genes." in: **Journal of human genetics**, Vol. 58, Issue 7, pp. 446-54, (2013) (PubMed).

Kurita, Arai, Nakamoto, Kato, Niwa: "Determination of DNA methylation using electrochemiluminescence with surface accumulable coreactant." in: **Analytical chemistry**, Vol. 84, Issue 4, pp. 1799-803, (2012) (PubMed).

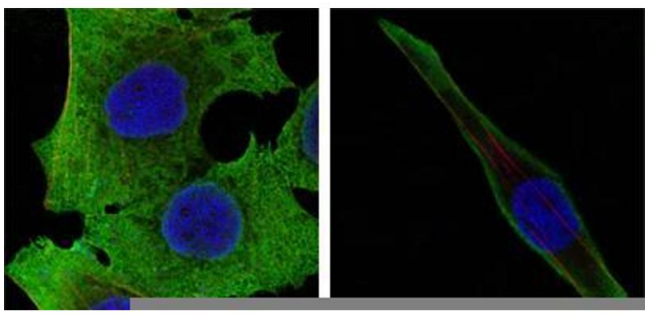
Kurita, Niwa: "DNA methylation analysis triggered by bulge specific immuno-recognition." in: **Analytical chemistry**, Vol. 84, Issue 17, pp. 7533-8, (2012) (PubMed).

Images



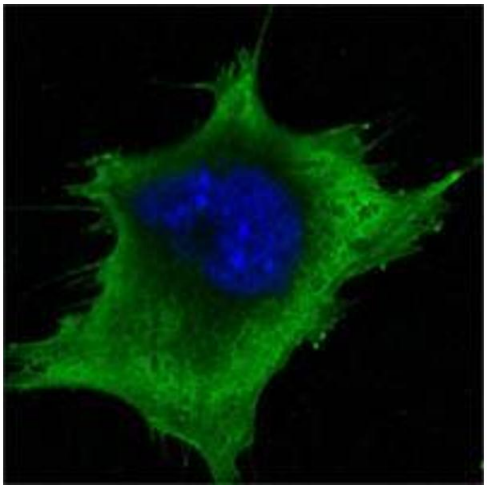
Flow Cytometry

Image 1. Flow cytometric analysis of A431 cells using SOD1 mouse mAb (green) and negative control (purple).



Immunofluorescence

Image 2. Confocal immunofluorescence analysis of PANC-1 (left) and SKBR-3 (right) cells using SOD1 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Immunofluorescence

Image 3. Confocal immunofluorescence analysis of 3T3-L1 cells using SOD1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

Please check the product details page for more images. Overall 4 images are available for ABIN969412.