Datasheet for ABIN652681

anti-SOD1 antibody (AA 55-84)

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Overview

Quantity:	400 µL
Target:	SOD1
Binding Specificity:	AA 55-84
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This SOD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-84 amino acids from the Central region of human SOD1.
Clone:	RB21395
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SOD1
Alternative Name:	SOD1 (SOD1 Products)

Target Details

Background:	SOD1 binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. This isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein.
Molecular Weight:	15936
Gene ID:	6647
NCBI Accession:	NP_000445
UniProt:	P00441
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

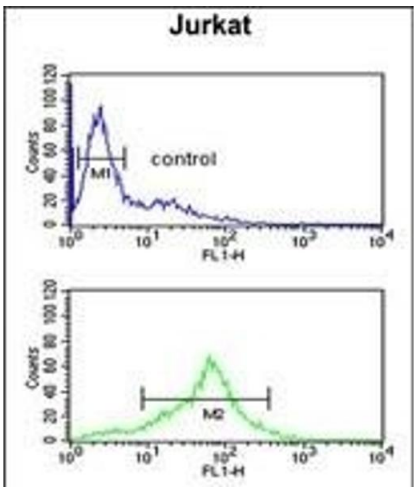
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

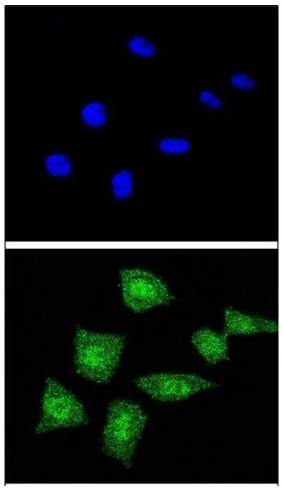
Product cited in:	Huang, Zhan, Cao, Li, Lyu, Guo, Zhang, Ji, Ren, An, Liu, Nie, Xing: "Increased mitochondrial fission promotes autophagy and hepatocellular carcinoma cell survival through the ROS-modulated coordinated regulation of the NFKB and TP53 pathways." in: **Autophagy**, Vol. 12, Issue 6, pp. 999-1014, (2017) (PubMed).

Images



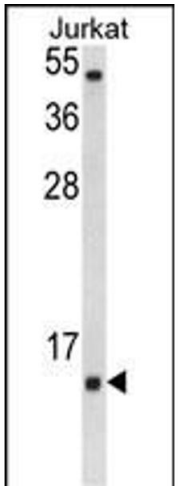
Flow Cytometry

Image 1. SOD1 Antibody (Center) (ABIN652681 and ABIN2842453) flow cytometric analysis of Jurkat cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of SOD1 Antibody (Center) (ABIN652681 and ABIN2842453) with 293 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green).DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. Western blot analysis of SOD1 Antibody (Center) (ABIN652681 and ABIN2842453) in Jurkat cell line lysates (35 µg/lane). SOD1 (arrow) was detected using the purified Pab.

Please check the product details page for more images. Overall 4 images are available for ABIN652681.