

## Superoxide Dismutase 1 (SOD1) Antibody

Catalogue No.:abx011545



Western blot analysis using SOD1 antibody against Hela (1), NIH/3T3 (2), A549 (3) and A431 (4) cell lysate.



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



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



Flow cytometric analysis of A431 cells using SOD1 antibody (green) and negative control (purple).

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 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.

Target:

Superoxide Dismutase 1 (SOD1)

## Datasheet Version: 3.0.0 Revision date: 06 Mar 2025



Clonality:	Monoclonal
Reactivity:	Human, Mouse
Tested Applications:	ELISA, WB, IF/ICC, FCM
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000, IF/ICC: 1/200 - 1/1000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human SOD1 expressed in E. coli.
Isotype:	IgG <sub>1</sub>
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P00441 ( <u>UniProt</u> , <u>ExPASy</u> )
GenelD:	6647
KEGG:	hsa:6647
String:	9606.ENSP00000270142
Molecular Weight:	18 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.