

Product datasheet for **AM06340SU-N**

Superoxide Dismutase 1 (SOD1) Mouse Monoclonal Antibody [Clone ID: 6F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6F5
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA: 1/10,000. Western Blot: 1/500 - 1/2000. Flow Cytometry: 1/200 - 1/400. Immunocytochemistry: 1/200 - 1/1000.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human SOD1 expressed in E. Coli.
Specificity:	Recognizes SOD1 (superoxide dismutase 1, soluble).
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	18 kDa
Gene Name:	superoxide dismutase 1, soluble
Database Link:	Entrez Gene 6647 Human P00441



[View online »](#)

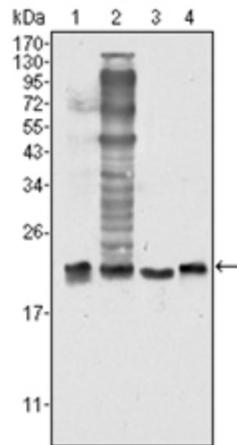
Background:

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-occurring 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.

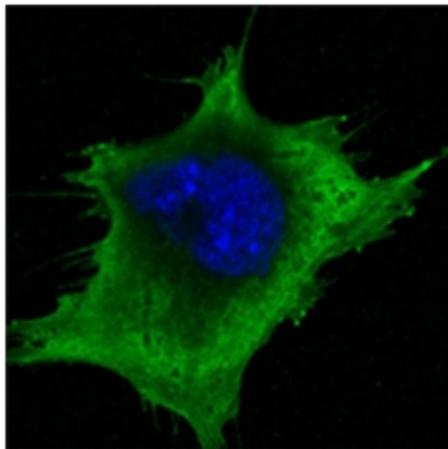
Synonyms:

SOD-1, CuZn-SOD, CuZnSOD, IPOA, ALS1

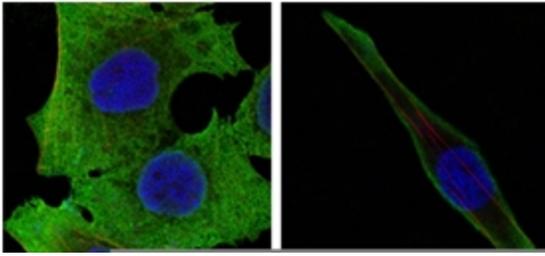
Product images:



Western blot analysis using SOD1 antibody Cat.-No AM06340SU-N against Hela (Lane 1), NIH/3T3 (Lane 2), A549 (Lane 3) and A431 (Lane 4) cell lysate.



Confocal immunofluorescence analysis of 3T3-L1 cells using SOD1 antibody Cat.-No AM06340SU-N (green). Blue: DRAQ5 fluorescent DNA dye.



Confocal Immunofluorescence analysis of PANC-1 (left) and SKBR-3 (right) cells using SOD1 antibody Cat.-No AM06340SU-N (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.