

Product datasheet for **AP18205PU-N**

Superoxide Dismutase 1 (SOD1) (Center) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1,000. Western blot: 1/100 - 1/500.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide selected from the Center region of human SOD1
Specificity:	This antibody reacts to Superoxide Dismutase 1 (SOD1).
Formulation:	PBS with 0.09% (W/V) sodium azide State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
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.
Gene Name:	superoxide dismutase 1, soluble
Database Link:	Entrez Gene 6647 Human P00441
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-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein.
Synonyms:	SOD-1, CuZn-SOD, CuZnSOD, IPOA, ALS1
Protein Families:	Druggable Genome
Protein Pathways:	Amyotrophic lateral sclerosis (ALS), Huntington's disease, Prion diseases



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Product images:



Western blot analysis of SOD1 Antibody (Center) in Jurkat cell line lysates (35ug/lane). SOD1 (arrow) was detected using the purified Pab.