



Anti-SOD1 (native) polyclonal antibody (CPBT-67311SB)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview Superoxide dismutases (SOD) are a class of enzymes that catalyze the dismutation of superoxide into oxygen and hydrogen peroxide. As such, they are an important antioxidant defense in nearly all cells exposed to oxygen. There are three major families of superoxide dismutase, depending on the metal cofactor: Cu-Zn (which binds both copper and zinc), Fe and Mn types (which bind either iron or manganese), and finally the Ni type, which binds nickel. This antibody recognises superoxide dismutase (Cu-Zn) and has the following specificities as determined by ELISA at 50% maximal binding: SOD, bovine RBCs (Cu-Zn)100% SOD, human RBCs (Cu-Zn)30% SOD, bovine liver (Mn)14% SOD, E. coli (Fe)14% SOD, E. coli (Mn)14%

Specificity	SOD1
Immunogen	Native superoxide dismutase from bovine erythrocytes
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Bovine
Conjugate	Unconjugated
Applications	ELISA
Format	Purified IgG- liquid
Size	1 ml
Preservative	See individual product datasheet
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a

precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	SOD1 superoxide dismutase 1, soluble [Bos taurus (cattle)]
Official Symbol	SOD1
Synonyms	SOD1; SOD1L1; superoxide dismutase [Cu-Zn]; Cu-Zn superoxide dismutase;
Entrez Gene ID	281495
Protein Refseq	NP_777040
UniProt ID	P00442
Chromosome Location	1q12-q14
Pathway	Amyotrophic lateral sclerosis (ALS); Cellular responses to stress; Detoxification of Reactive Oxygen Species; Hemostasis; Huntingtons disease; Peroxisome; Platelet activation, signaling and aggregation; Platelet degranulation;
Function	chaperone binding; copper ion binding; protein binding; protein phosphatase 2B binding; superoxide dismutase activity; ubiquitin-protein transferase activity; zinc ion binding;
