

Product datasheet for TA326421

OriGene Technologies, Inc.

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Superoxide Dismutase 3 (SOD3) Rabbit Polyclonal Antibody [Clone ID: N/A]

Product data:

Product Type: Primary Antibodies

Clone Name: N/A

Recommended Dilution: WB: 1:1000

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Peptide corresponding to AA 227-236 of human EC SOD

Formulation: PBS pH7.4, 50% glycerol, 0.09% sodium azide

Concentration: lot specific

Purification: Peptide Affinity Purified

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: superoxide dismutase 3, extracellular

Database Link: NP 003093

Entrez Gene 20657 MouseEntrez Gene 25352 RatEntrez Gene 6649 Human

P08294

Background: Superoxide dismutase (SOD) is an endogenously produced intracellular enzyme present in

almost every cell in the body . It works by catalyzing the dismutation of the superoxide radical O2? to O2 and H2O2, which are then metabolized to H2O and O2 by catalase and glutathione peroxidase . In general, SODs play a major role in antioxidant defense mechanisms . There are three types of SOD in mammalian cells. One form (SOD1) contains Cu and Zn ions as a homodimer and exists in the cytoplasm. The two subunits of 16 kDa each are linked by two

cysteines forming an intra-subunit disulphide bridge . The second form (SOD2) is a

manganese containing enzyme and resides in the mitochondrial matrix. It is a homotetramer of 80 kDa. The third form (SOD3 or EC-SOD) is like SOD1 in that it contains Cu and Zn ions, however it is distinct in that it is a homotetramer, with a mass of 30 kDA and it exists only in the extra-cellular space . SOD3 can also be distinguished by its heparin-binding capacity .





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Synonyms: EC-SOD

Note: Identifies a band ~35kD on WB

Protein Families: Druggable Genome, Secreted Protein