

For Research Use Only

SOD3 Polyclonal antibody

Catalog Number: 14316-1-AP

4 Publications



Basic Information

Catalog Number: 14316-1-AP	GenBank Accession Number: BC014418	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 6649	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: superoxide dismutase 3, extracellular	
Isotype: IgG	Calculated MW: 26 kDa	
Immunogen Catalog Number: AG5556	Observed MW: 25-33 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : human urine sample, human heart tissue, human urine, human placenta tissue
Species Specificity: human	IP : human placenta tissue,
Cited Species: human, rat, mouse	

Background Information

SOD is located intracellular (SOD-1; cytosolic, SOD-2; mitochondrial matrix) and extracellular (SOD-3), and catalyzes the dismutation of superoxide anion to H₂O₂. SOD₃, or EC-SOD, is the most recently characterized SOD, exists as a copper and zinc-containing tetramer, and is synthesized containing a signal peptide that directs this enzyme exclusively to extracellular spaces. SOD-3 is a Mn-containing tetrameric protein with a subunit Mr of 24-35 kDa. The activity of EC-SOD is dependent on its ability to form a tetramer of 135 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xue Tian	34403689	Toxicol Appl Pharmacol	WB
Ai Wei	34378791	Br J Pharmacol	WB
Gedong Ming	34584879	Transl Pediatr	WB

Storage

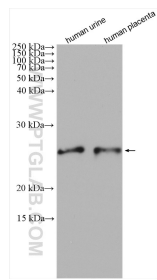
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

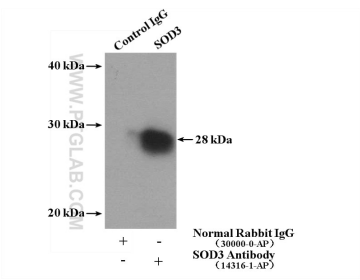
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14316-1-AP (SOD3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP Result of anti-SOD3 (IP:14316-1-AP, 4ug; Detection:14316-1-AP 1:1000) with human placenta tissue lysate 2800ug.