

For Research Use Only

SOD2 Recombinant antibody, PBS Only



Catalog Number: 83519-4-PBS

Basic Information

Catalog Number: 83519-4-PBS	GenBank Accession Number: BC016934	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 6648	CloneNo.: 240462H8
Source: Rabbit	UNIPROT ID: P04179	
Isotype: IgG	Full Name: superoxide dismutase 2, mitochondrial	
Immunogen Catalog Number: AG21388	Calculated MW: 25 kDa	
	Observed MW: 25 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

Background Information

SOD2 (superoxide dismutase 2, mitochondrial) is also named as IPOB, MNSOD, SODM, Mn-SOD and belongs to the iron/manganese superoxide dismutase family. It is a marker of mitochondria, which is restricted to the perinuclear area in a cell with aggregate formation of mutant SOD1 (PMID:12659845). It functions as the first line of antioxidant defense against highly reactive superoxide radicals and it appears to be early predictors for survival in septic patients with MIF (PMID:20863520). It has 2 isoforms with the molecular weight of 25 kDa and 21 kDa.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

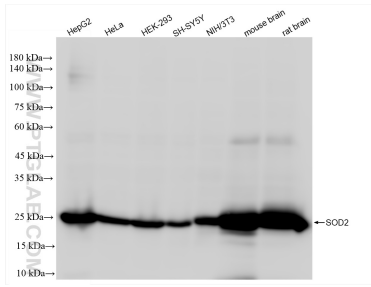
T: 4006900926

E: Proteintech-CN@ptglab.com

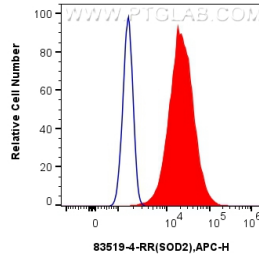
W: ptgcn.com

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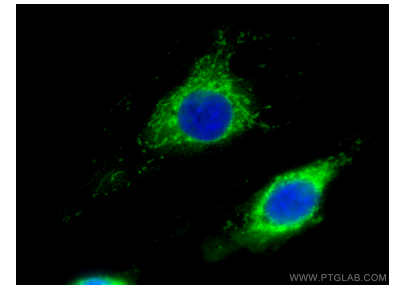
Selected Validation Data



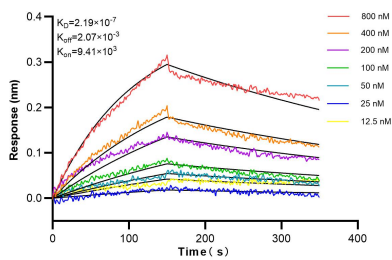
Various lysates were subjected to SDS PAGE followed by western blot with 83519-4-RR (SOD2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83519-4-PBS in a different storage buffer formulation.



1x10⁶ A549 cells were intracellularly stained with 0.25 ug Sod2 Recombinant Antibody (83519-4-RR, Clone:240462H8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83519-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using SOD2 antibody (83519-4-RR, Clone: 240462H8) at dilution of 1:800 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). This data was developed using the same antibody clone with 83519-4-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 83519-4-RR against Human SOD2 were performed. The affinity constant is 219 nM.