

For Research Use Only

SOD2 Recombinant antibody

Catalog Number: 83519-4-RR



Basic Information

Catalog Number:

83519-4-RR

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21388

GenBank Accession Number:

BC016934

GeneID (NCBI):

6648

UNIPROT ID:

P04179

Full Name:

superoxide dismutase 2,
mitochondrial

Calculated MW:

25 kDa

Observed MW:

25 kDa

Purification Method:

Protein A purification

CloneNo.:

240462H8

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HepG2 cells, HeLa cells, HEK-293 cells, SH-SY5Y cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

IF/ICC : HUVEC cells,

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 -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

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

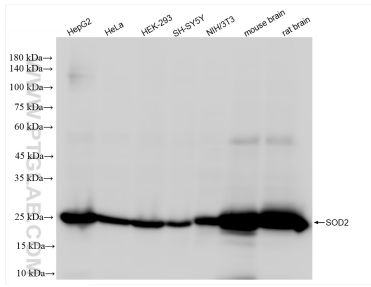
T: 4006900926

E: Proteintech-CN@ptglab.com

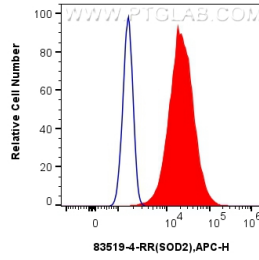
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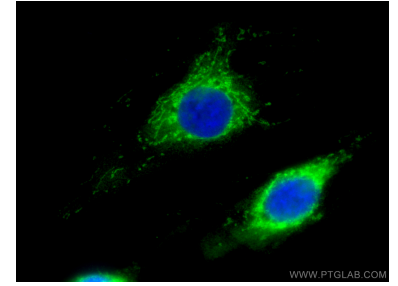
Selected Validation Data



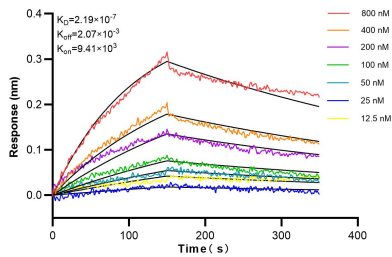
Various lysates were subjected to SDS PAGE followed by western blot with 83519-4-RR (SOD2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



1×10^6 A549 cells were intracellularly stained with 0.25 μ g Sod2 Recombinant Antibody (83519-4-RR, Clone:240462H8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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).



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