For Research Use Only

CoraLite®594-conjugated SOD2 Monoclonal antibody

Catalog Number:CL594-66474 2 Publications

proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL594-66474

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG2a

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.:
3A6C2

Recommended Dilutions:
IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
IF

Species Specificity:
human, mouse, rat, pig

Cited Species:
human

Positive Controls:

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 with MIF(PMID:20863520). It has 2 isoforms with the molecular weight of 25 kDa and 21 kDa.

Notable Publications

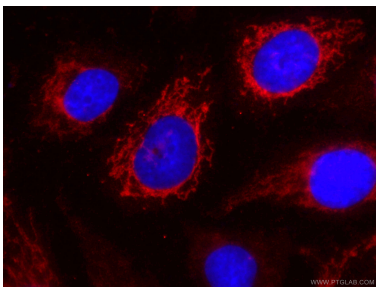
Author	Pubmed ID	Journal	Application
Fang Ren	39112478	Cell Death Dis	IF
Shitong Lin	37879219	EBioMedicine	IF,FC

Storage

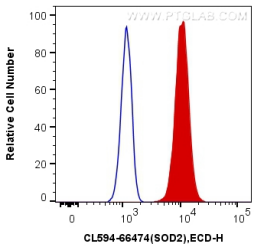
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HUVEC cells using CL594-66474 (SOD2 antibody) at dilution of 1:100.



1X10^6 HeLa cells were intracellularly stained with 0.5 ug CoraLite®594 Anti-Human SOD2 (CL594-66474, Clone:3A6C2) (red), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).