For Research Use Only

SOD2 Polyclonal antibody

Catalog Number: 24127-1-AP 373 Publications



Basic Information

Catalog Number: GenBank Accession Number: 24127-1-AP BC016934

Concentration: GeneID (NCBI):

700 ug/ml 6648
Source: UNIPROT ID:

Rabbit P04179
Isotype: Full Name:

gG superoxide dismutase 2, mitochondrial

Immunogen Catalog Number: mitocnondrial AG21388 Calculated MW:

25 kDa Observed MW:

25 kDa

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ELISA Species Specificity: human, mouse, rat

Cited Species:

human, mouse, rat, pig, chicken, zebrafish, bovine, sheep, goat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Purification Method:

Antigen affinity purification

Recommended Dilutions: WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC: 1:500-1:2000 IF/ICC: 1:200-1:800

Positive Controls:

WB: DU 145 cells, HEK-293 cells, HeLa cells, mouse

brain tissue, rat brain tissue

IP: mouse brain tissue.

IHC: human liver cancer tissue, human breast cancer

tissue, human colon tissue

IF/ICC : HUVEC cells, HeLa 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
Huidong Wang	36249770	Front Pharmacol	IF
Dan Tang	34815154	Phytomedicine	WB
Wen Zhang	31553975	Kidney Blood Press Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

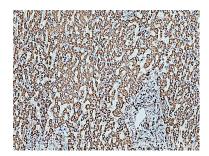
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

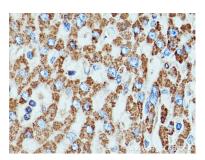
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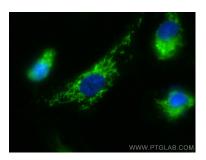
Selected Validation Data



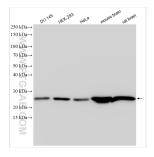
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 24127-1-AP (SOD2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



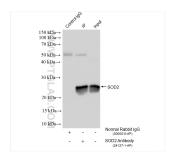
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 24127-1-AP (SOD2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



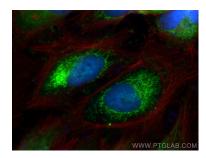
Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using SOD2 antibody (24127-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Various lysates were subjected to SDS PAGE followed by western blot with 24127-1-AP (SOD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-SOD2 (IP:24127-1-AP, 4ug; Detection:24127-1-AP 1:10000) with mouse brain tissue lysate 1840 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SOD2 antibody (24127-1-AP) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).