For Research Use Only

PON1 Polyclonal antibody

Catalog Number:18155-1-AP 9 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
18155-1-AP

Concentration:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12934

GenBank Accession Number:
BC074719

GeneID (NCBI):
5444

UNIPROT ID:
P27169

Full Name:
paraoxonase 1

Calculated MW:
355 aa, 40 kDa

Observed MW:
35 kDa, 40-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB, IHC, IF, IP, ELISA

Species Specificity:
human, mouse

Cited Species:
human, mouse

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

Positive Controls:

WB : human plasma, mouse liver tissue

IP : mouse liver tissue,

IHC : human liver tissue,

Background Information

PON1, also named PON and K-45, belongs to the paraoxonase family. PON1 hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. It is capable of hydrolyzing a broad spectrum of organophosphate substrates and several aromatic carboxylic acid esters. PON1 may mediate enzymatic protection of low-density lipoproteins against oxidative modification and the consequent series of events leading to atheroma formation. PON1 was identified as a triple band in a range of approximately 35-40 kDa. For glycosylated, the MW of PON1 is migrated 42-45kd, while the 35 kDa band represents the unglycosylated form (PMID: 17906223, 32002976, 21852972). The antibody has cross-reaction to PON2 and PON3.

Notable Publications

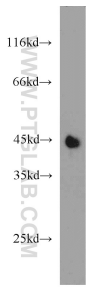
Author	Pubmed ID	Journal	Application
Shizhe Yu	35813194	Front Cell Dev Biol	IF
Dan Gilad	30572120	Biochim Biophys Acta Mol Cell Biol Lipids	IHC
Qingcai Meng	30538220	Cell Death Dis	WB

Storage

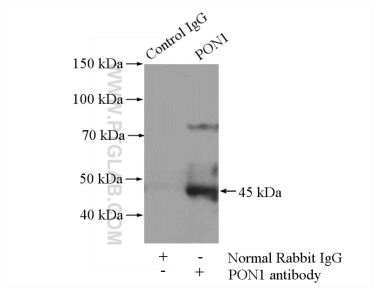
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

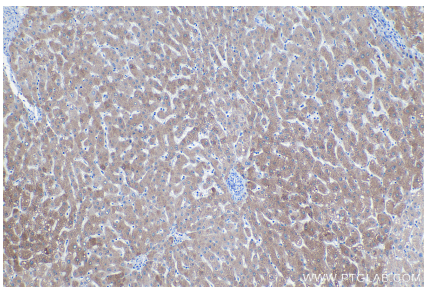
Selected Validation Data



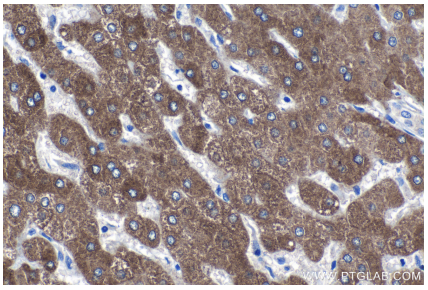
human blood were subjected to SDS PAGE followed by western blot with 18155-1-AP (PON1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-PON1 (IP:18155-1-AP, 4ug; Detection:18155-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18155-1-AP (PON1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18155-1-AP (PON1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).