For Research Use Only

PON2 Polyclonal antibody

Catalog Number:14379-1-AP 4 Publications

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Basic Information

Catalog Number:
14379-1-AP

Size:
150ul , Concentration: 200 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5759

GenBank Accession Number:
BC046160

GeneID (NCBI):
5445

UNIPROT ID:
Q15165

Full Name:
paraoxonase 2

Calculated MW:
39 kDa

Observed MW:
39 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 1:20-1:200
IF/ICC 1:20-1:200

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human

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 liver tissue, L02 cells

IP : L02 cells,

IHC : human liver cancer tissue,

IF/ICC : HepG2 cells,

Background Information

PON2(Serum paraoxonase/arylesterase 2) has antioxidant activity and can prevents LDL lipid peroxidation, reverses the oxidation of mildly oxidized LDL, and inhibits the ability of MM-LDL to induce monocyte chemotaxis. Highest levels of PON2 protein are found in the mouse lung and small intestine, followed by the heart and liver, while lower levels are present in the testis, kidney and brain. PON2 expression in tissues from female mice is always significantly higher than in male animals. There are also some reports showing two bands of 43 kDa and 53 kDa to be detected through western blot as the two isoforms of this protein. (PMID:21354197).

Notable Publications

Author	Pubmed ID	Journal	Application
Henning Hagmann	36429053	Cells	IHC
Henning Hagmann	24421402	FASEB J	IHC
Xueqi Chen	37054540	Biomed Pharmacother	WB,IF

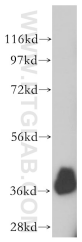
Storage

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

*** 20ul sizes contain 0.1% BSA

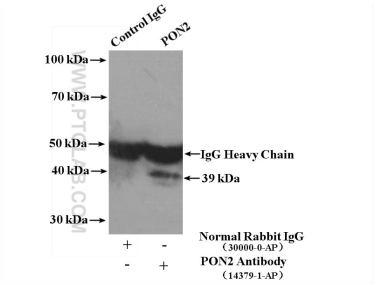
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data

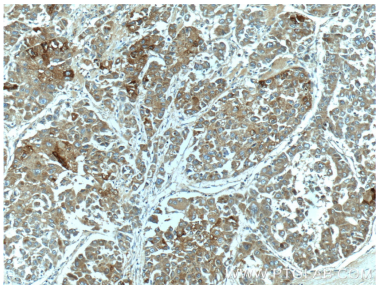


human liver tissue were subjected to SDS PAGE followed by western blot with 14379-1-AP (PON2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.

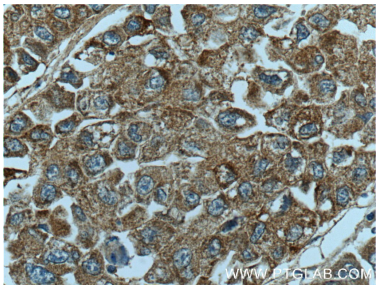
Immunofluorescent analysis of HepG2 cells, using PON2 antibody 14379-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-PON2 (IP:14379-1-AP, 4ug; Detection:14379-1-AP 1:500) with L02 cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14379-1-AP (PON2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14379-1-AP (PON2 Antibody) at dilution of 1:200 (under 40x lens).