

PON2 Polyclonal Antibody

Catalog number: 14379-1-AP

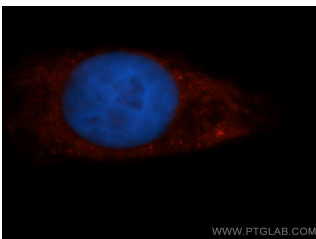
Size: 30 µg/150 µl

Source: Rabbit

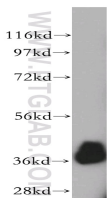
Isotype: IgG

Synonyms:

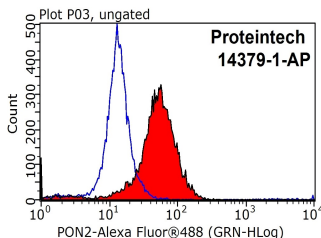
PON2; A esterase 2, Aromatic esterase 2, paraoxonase 2, PON 2, PON2, Serum arylalkylphosphatase 2



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).



human liver tissue were subjected to SDS PAGE followed by western blot with 14379-1-AP(PON2 antibody) at dilution of 1:300



1X10⁶ HepG2 cells were stained with 0.2µg PON2 antibody (14379-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.

Background

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).

Applications

Tested applications:	ELISA, WB, IF, FC, IHC, IP
Cited applications:	IHC, WB
Species specificity:	Human; other species not tested.
Cited species:	Human, mouse
Calculated PON2 MW:	39 kDa
Observed PON2 MW:	39 kDa
Positive WB detected in	Human liver tissue, L02 cells
Positive IP detected in	L02 cells
Positive IHC detected in	Human liver cancer tissue
Positive IF detected in	HepG2 cells
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

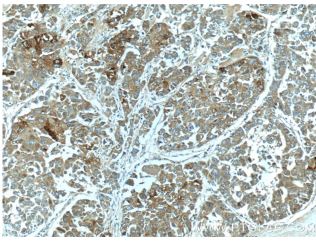
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

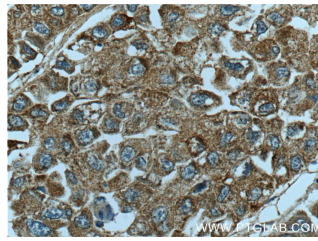
Immunogen:	Ag5759
GenBank accession number:	BC046160
Gene ID (NCBI):	5445
Full name:	Paraoxonase 2

Product information

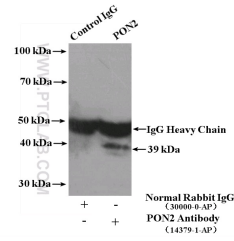
Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



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



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



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