

PON1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1873a**Specification****PON1 Antibody - Product Information**

Application	WB, IHC, FC, E
Primary Accession	P27169
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	39.7kDa KDa

Description

The enzyme encoded by this gene is an arylesterase that mainly hydrolyzes paroxon to produce p-nitrophenol. Paroxon is an organophosphorus anticholinesterase compound that is produced in vivo by oxidation of the insecticide parathion. Polymorphisms in this gene are a risk factor in coronary artery disease. The gene is found in a cluster of three related paraoxonase genes at 7q21.3.

Immunogen

Purified recombinant fragment of human PON1 (AA: 20-155) expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

PON1 Antibody - Additional Information

Gene ID 5444

Other Names

Serum paraoxonase/arylesterase 1, PON 1, 3.1.1.2, 3.1.1.81, 3.1.8.1, Aromatic esterase 1, A-esterase 1, K-45, Serum aryldialkylphosphatase 1, PON1, PON

Dilution

WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PON1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PON1 Antibody - Protein Information

Name PON1

Synonyms PON

Function

Hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. Capable of hydrolyzing a broad spectrum of organophosphate substrates and lactones, and a number of aromatic carboxylic acid esters. Mediates an enzymatic protection of low density lipoproteins against oxidative modification and the consequent series of events leading to atheroma formation.

Cellular Location

Secreted, extracellular space.

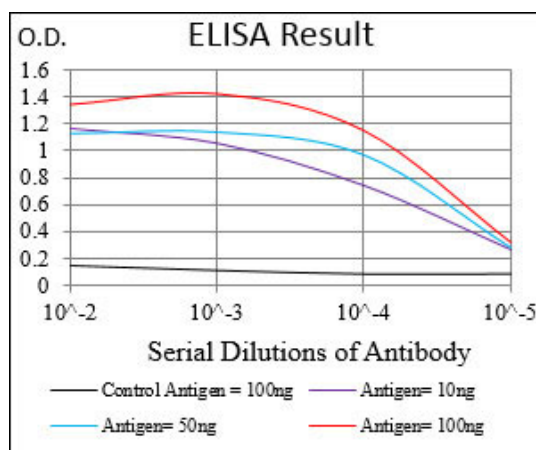
Tissue Location

Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas.

PON1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



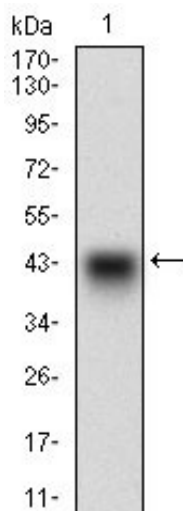


Figure 1: Western blot analysis using PON1 mAb against human PON1 recombinant protein. (Expected MW is 40.6 kDa)

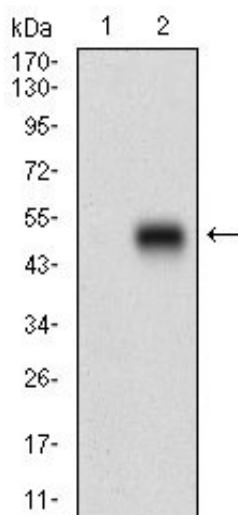


Figure 2: Western blot analysis using PON1 mAb against HEK293 (1) and PON1 (AA: 20-155)-hIgGFc transfected HEK293 (2) cell lysate.

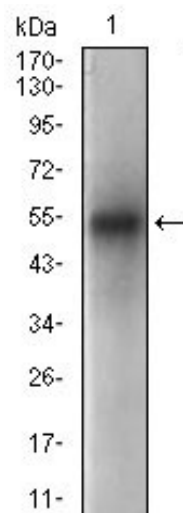


Figure 3: Western blot analysis using PON1 mouse mAb against human plasma cell lysate.

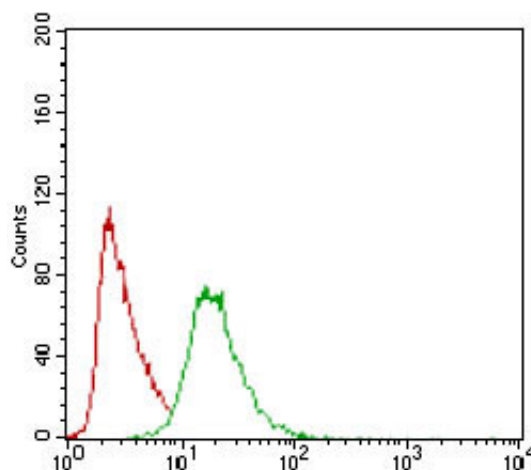


Figure 4: Flow cytometric analysis of Hela cells using PON1 mouse mAb (green) and negative control (red).

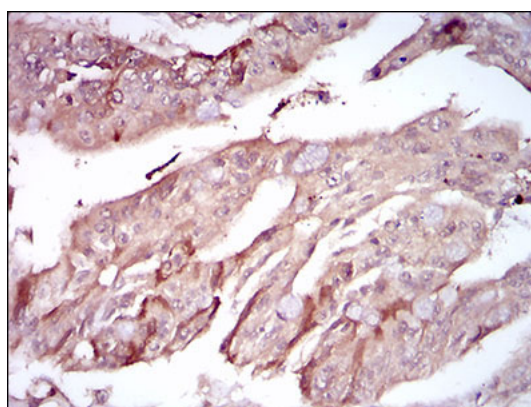


Figure 5: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PON1 mouse mAb with DAB staining.

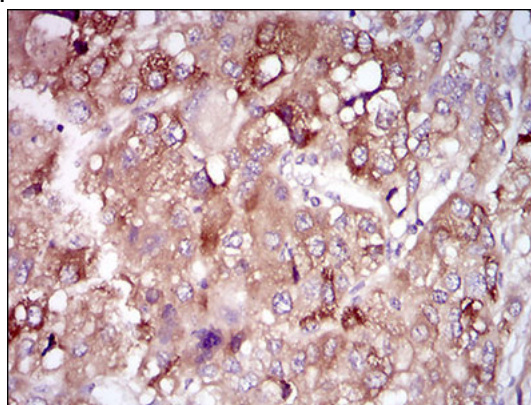


Figure 6: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using PON1 mouse mAb with DAB staining.

PON1 Antibody - Background

The enzyme encoded by this gene is an arylesterase that mainly hydrolyzes paroxon to produce p-nitrophenol. Paroxon is an organophosphorus anticholinesterase compound that is produced in vivo by oxidation of the insecticide parathion. Polymorphisms in this gene are a risk factor in coronary artery disease. The gene is found in a cluster of three related paraoxonase genes at 7q21.3. ;

PON1 Antibody - References

1. Redox Rep. 2012;17(5):214-8. 2. Cancer Epidemiol. 2012 Apr;36(2):e101-3.