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PON2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5760c

Specification

PON2 Antibody (Center) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	Q15165
Other Accession	NP_000296.2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**39381**
Antigen Region	**74-101**

PON2 Antibody (Center) - Additional Information

Gene ID 5445

Other Names
Serum paraoxonase/arylesterase 2, PON 2, Aromatic esterase 2, A-esterase 2, Serum aryldialkylphosphatase 2, PON2

Target/Specificity
This PON2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 74-101 amino acids from the Central region of human PON2.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
PON2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PON2 Antibody (Center) - Protein Information

Name PON2

Function Capable of hydrolyzing lactones and a number of aromatic carboxylic acid esters. Has antioxidant activity. Is not associated with high density lipoprotein. Prevents LDL lipid peroxidation, reverses the oxidation of mildly oxidized LDL, and inhibits the ability of MM-LDL to induce monocyte chemotaxis.

Cellular Location
Membrane; Peripheral membrane protein

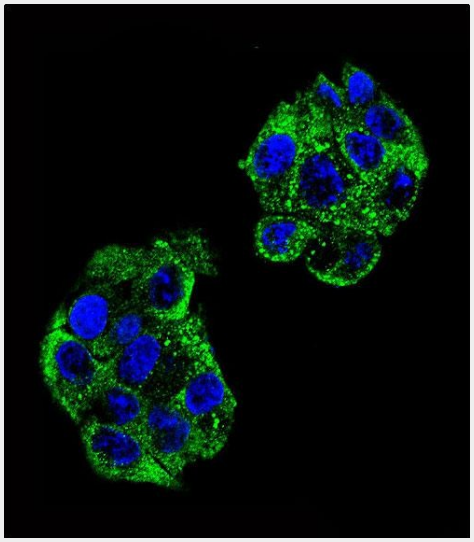
Tissue Location
Widely expressed with highest expression in liver, lung, placenta, testis and heart.

PON2 Antibody (Center) - Protocols

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

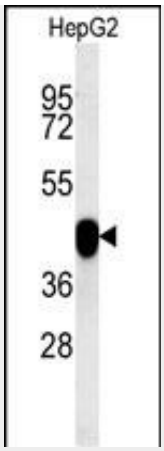
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PON2 Antibody (Center) - Images

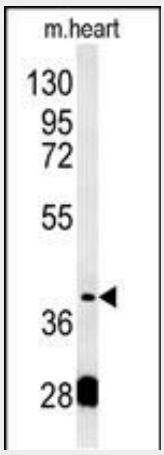


Confocal immunofluorescent analysis of PON2 Antibody (Center)(Cat#AP5760c) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

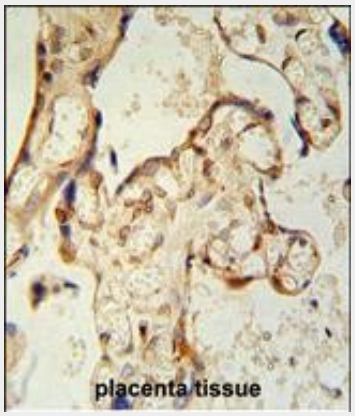
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PON2 Antibody (Center) (Cat. #AP5760c) western blot analysis in HepG2 cell line lysates (15ug/lane).This demonstrates the PON2 antibody detected PON2 protein (arrow).



PON2 Antibody (Center) (Cat. #AP5760c) western blot analysis in mouse heart tissue lysates (15ug/lane).This demonstrates the PON2 antibody detected PON2 protein (arrow).



PON2 antibody(Center) (Cat. #AP5760c) immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PON2 antibody(Center) for immunohistochemistry. Clinical relevance has not been evaluated.

PON2 Antibody (Center) - Background

PON2 is a member of the paraoxonase gene family,
which includes three known members located adjacent to each other

on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes.

PON2 Antibody (Center) - References

Sanghera, D.K., et al. Am. J. Hum. Genet. 62(1):36-44(1998)
Hegele, R.A., et al. J. Clin. Endocrinol. Metab. 82(10):3373-3377(1997)
Primo-Parmo, S.L., et al. Genomics 33(3):498-507(1996)