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Anti-PON2 Antibody
Catalog # ABO11564

Specification

Anti-PON2 Antibody - Product Information

Application	**WB**
Primary Accession	Q15165
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Serum paraoxonase/arylesterase 2(PON2) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PON2 Antibody - Additional Information

Gene ID 5445

Other Names
Serum paraoxonase/arylesterase 2, PON 2, 3.1.1.2, 3.1.1.81, Aromatic esterase 2, A-esterase 2, Serum aryldialkylphosphatase 2, PON2

Calculated MW
39397 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Membrane ; Peripheral membrane protein .

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

Protein Name
Serum paraoxonase/arylesterase 2

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence in the middle region of human PON2(189-203aa FLKYLETYLNLHWAN), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the paraoxonase family.

Anti-PON2 Antibody - 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.

Anti-PON2 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 Cytomety
- Cell Culture

Anti-PON2 Antibody - Images

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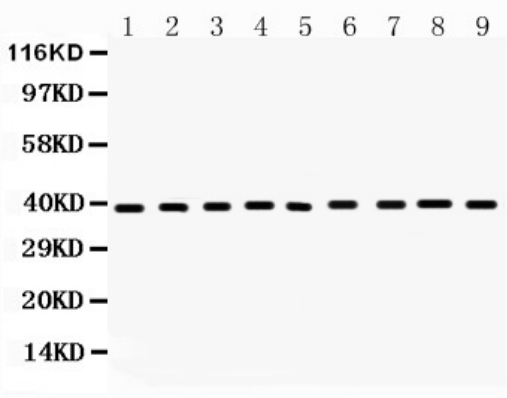

Anti-PON2 antibody, ABO11564, All Western blottingAll lanes: Anti-PON2(ABO11564) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 40ugLane 2: Rat Lung Tissue Lysate at 40ugLane 3: Human Placenta Tissue Lysate at 40ugLane 4: Rat Testis Tissue Lysate at 40ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: HEPA Whole Cell Lysate at 40ugLane 7: A549 Whole Cell Lysate at 40ugLane 8: JURKAT Whole Cell Lysate at 40ugLane 9: SKOV Whole Cell Lysate at 40ugPredicted bind size: 39KDObserved bind size: 39KD

Anti-PON2 Antibody - Background

PON2Â is anÂ enzymeÂ that in humans is encoded by theÂ PON2Â gene. This gene is mapped to 7q21.3. This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7.Â The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress.Â Hydrolytic activity against acylhomoserine lactones and important bacterial quorum-sensing mediators suggests the encoded protein may also play a role in defense responses to pathogenic bacteria.Â Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes.Â