

Anti-PON1 Antibody

Catalog # ABO11563

Product Information

Application	WB
Primary Accession	P27169
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Serum paraoxonase/arylesterase 1(PON1) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	39731
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Secreted, extracellular space.
Tissue Specificity	Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas. .
Source	Eukaryota
Protein Name	Serum paraoxonase/arylesterase 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PON1(186-201aa FLDPYLQSWEMYLGLA), different from the related mouse and rat sequences by three amino acids.
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

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Belongs to the paraoxonase family.

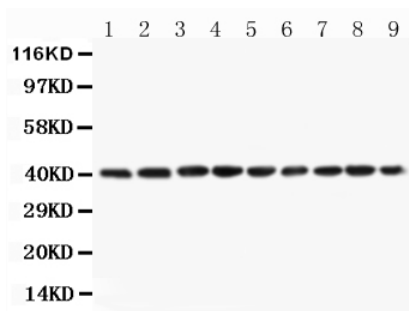
Protein Information

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.

Background

Serum paraoxonase/arylesterase 1(PON1), also known as aromatic esterase 1, is an enzyme that in humans is encoded by the PON1 gene. It is mapped to 7q21.3. This gene has esterase and more specifically paraoxonase activity. PON1 is responsible for hydrolysing organophosphate pesticides and nerve gasses. Polymorphisms in the PON1 gene significantly affect the catalytic ability of the enzyme. PON1(paraoxonase 1) is also a major anti-atherosclerotic component of high-density lipoprotein(HDL). The PON1 gene is activated by PPAR-gamma, which increases synthesis and release of paraoxonase 1 enzyme from the liver, reducing atherosclerosis.

Images



Anti-PON1 antibody, ABO11563, All Western blotting
All lanes: Anti-PON1(ABO11563) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 40ug
Lane 2: Rat Lung Tissue Lysate at 40ug
Lane 3: Human Placenta Tissue Lysate at 40ug
Lane 4: Rat Testis Tissue Lysate at 40ug
Lane 5: HELA Whole Cell Lysate at 40ug
Lane 6: HEPA Whole Cell Lysate at 40ug
Lane 7: A549 Whole Cell Lysate at 40ug
Lane 8: JURKAT Whole Cell Lysate at 40ug
Lane 9: SKOV Whole Cell Lysate at 40ug
Predicted bind size: 40KD
Observed bind size: 40KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.