

Goat Anti-PON1 / paraoxonase 1 Antibody

Peptide-affinity purified goat antibody Catalog # AF1849a

Specification

Goat Anti-PON1 / paraoxonase 1 Antibody - Product Information

Application WB, E
Primary Accession P27169

Other Accession NP_000437, 5444

Reactivity
Host
Clonality
Concentration
Isotype
Human
Goat
Polyclonal
100ug/200ul
IgG

Isotype IgG
Calculated MW 39731

Goat Anti-PON1 / paraoxonase 1 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~~1:1000

 $E \sim N/A$

Format

0.5~mg~lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

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

Goat Anti-PON1 / paraoxonase 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PON1 / paraoxonase 1 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

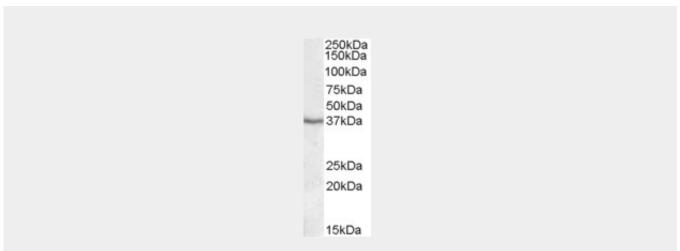
Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas.

Goat Anti-PON1 / paraoxonase 1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-PON1 / paraoxonase 1 Antibody - Images



AF1849a (1 μ g/ml) staining of Human Liver lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-PON1 / paraoxonase 1 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.

Goat Anti-PON1 / paraoxonase 1 Antibody - References

PON1 55 and 192 Gene Polymorphisms in Type 2 Diabetes Mellitus Patients in a Turkish Population.





Ergun MA, et al. Biochem Genet, 2010 Sep 7. PMID 20820904.

Interaction of paraoxonase-192 polymorphism with low HDL-cholesterol in coronary artery disease risk. Mendon ☐ a MI, et al. Rev Port Cardiol, 2010 Apr. PMID 20734577.

Two common nonsynonymous paraoxonase 1 (PON1) gene polymorphisms and brain astrocytoma and meningioma. Mart nez C, et al. BMC Neurol, 2010 Aug 19. PMID 20723250.

Interaction between organophosphate pesticide exposure and PON1 activity on thyroid function. Lacasa
☐a M, et al. Toxicol Appl Pharmacol, 2010 Aug 5. PMID 20691716.

Pharmacogenetic analysis of lipid responses to rosuvastatin in Chinese patients. Hu M, et al. Pharmacogenet Genomics, 2010 Oct. PMID 20679960.