

Goat Anti-PON1 / paraoxonase 1 Antibody

Peptide-affinity purified goat antibody Catalog # AF1849a

## Specification

# Goat Anti-PON1 / paraoxonase 1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Concentration Isotype Calculated MW

WB, E <u>P27169</u> <u>NP\_000437</u>, <u>5444</u> Human Goat Polyclonal 100ug/200ul IgG 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~~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.

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

#### Goat Anti-PON1 / paraoxonase 1 Antibody - Images



AF1849a (1  $\mu$ g/ml) staining of Human Liver lysate (35  $\mu$ 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.