

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 | Human |
| Host | Goat |
| Clonality | Polyclonal |
| Concentration | 100ug/200ul |
| 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~~N/A

Format

0.5 mg IgG/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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PON1 / paraoxonase 1 Antibody - Images

AF1849a (1 µg/ml) staining of Human Liver lysate (35 µg 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. Mendonça MI, et al. Rev Port Cardiol, 2010 Apr. PMID 20734577.
Two common nonsynonymous paraoxonase 1 (PON1) gene polymorphisms and brain astrocytoma and meningioma. Martínez C, et al. BMC Neurol, 2010 Aug 19. PMID 20723250.
Interaction between organophosphate pesticide exposure and PON1 activity on thyroid function. Lacasa 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.