

**PON1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10684c****Specification**

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**PON1 Antibody (Center) Blocking peptide - Product Information**

Primary Accession [P27169](#)

**PON1 Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 5444

**Other Names**

Serum paraoxonase/arylesterase 1, PON 1, Aromatic esterase 1, A-esterase 1, K-45, Serum arylalkylphosphatase 1, PON1, PON

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PON1 Antibody (Center) Blocking peptide - 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.

**PON1 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **PON1 Antibody (Center) Blocking peptide - Images**

#### **PON1 Antibody (Center) Blocking peptide - 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.

#### **PON1 Antibody (Center) Blocking peptide - References**

Ergun, M.A., et al. Biochem. Genet. (2010) In press : Cagirci, G., et al. J. Heart Valve Dis. 19(4):453-458(2010) Mendonca, M.I., et al. Rev Port Cardiol 29(4):571-580(2010) Hashemi, M., et al. Genet. Mol. Res. 9(3):1735-1741(2010) Martinez, C., et al. BMC Neurol 10, 71 (2010) :