

**PON2 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12952a**

**Specification**

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**PON2 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [Q15165](#)

**PON2 Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 5445

**Other Names**

Serum paraoxonase/arylesterase 2, PON 2, Aromatic esterase 2, A-esterase 2, Serum arylalkylphosphatase 2, PON2

**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.

**PON2 Antibody (N-term) Blocking peptide - Protein Information**

**Name** PON2

**Function**

Capable of hydrolyzing lactones and a number of aromatic carboxylic acid esters. Has antioxidant activity. Is not associated with high density lipoprotein. Prevents LDL lipid peroxidation, reverses the oxidation of mildly oxidized LDL, and inhibits the ability of MM-LDL to induce monocyte chemotaxis.

**Cellular Location**

Membrane; Peripheral membrane protein

**Tissue Location**

Widely expressed with highest expression in liver, lung, placenta, testis and heart.

**PON2 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **PON2 Antibody (N-term) Blocking peptide - Images**

### **PON2 Antibody (N-term) Blocking peptide - Background**

This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described.

### **PON2 Antibody (N-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Altenhofer, S., et al. J. Biol. Chem. 285(32):24398-24403(2010) Ticozzi, N., et al. Ann. Neurol. 68(1):102-107(2010) Wang, Y., et al. Diabet. Med. 27(4):376-383(2010) Cross, D.S., et al. BMC Genet. 11, 51 (2010) :