

产品名称: PON1 Rabbit Polyclonal Antibody  
产品货号: APRab16371



## 产品概述 (Summary)

|                        |                                 |
|------------------------|---------------------------------|
| 产品名称 (Production Name) | PON1 Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody      |
| 宿主 (Host)              | Rabbit                          |
| 应用 (Application)       | IHC, ICC/IF, ELISA              |
| 种属反应性 (Reactivity)     | Human, Rat, Mouse               |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PON1 PON                                                                                                                                             |
| 别名 (Alternative Names) | Serum paraoxonase/arylesterase 1 (PON 1; EC 3.1.1.2; EC 3.1.1.81; EC 3.1.8.1; Aromatic esterase 1; A-esterase 1; K-45; Serum arylalkylphosphatase 1) |
| 基因 ID (Gene ID)        | 5444.0                                                                                                                                               |
| 蛋白 ID (SwissProt ID)   | P27169. The antiserum was produced against synthesized peptide derived from the Internal region of human PON1. AA range: 51-100                      |

## 产品应用 (Application)

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | IHC 1:50-1:200, ICC/IF 1:50-1:200, ELISA 1:10000-1:20000 |
| 蛋白分子量 (Molecular Weight) |                                                          |

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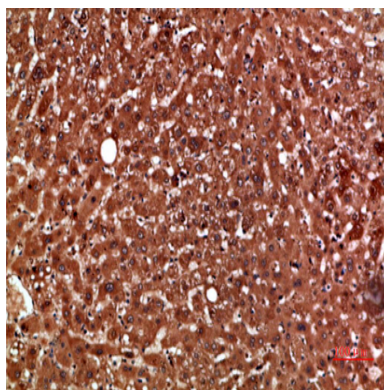
## 研究背景 (Background)

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. [provided by RefSeq, Oct 2008], catalytic activity: A phenyl acetate + H<sub>2</sub>O = a phenol + acetate., catalytic activity: An aryl dialkyl phosphate + H<sub>2</sub>O = dialkyl phosphate + an aryl alcohol., disease: Genetic variation in PON1 is associated with susceptibility to diabetic retinopathy [MIM:612633]; also called microvascular complications of diabetes type 5 (MVCD5). Diabetic retinopathy is a major cause of blindness in diabetic patients. Retinal disease results from adverse effects on the blood vessels which supply the retina., function: Hydrolyzes the toxic metabolites of a variety of organophosphorus insecticides. Capable of hydrolyzing a broad spectrum of organophosphate substrates and a number of aromatic carboxylic acid esters. May mediate an enzymatic protection of low density lipoproteins against oxidative modification and the consequent series of events leading to atheroma formation., miscellaneous: The preferential association of PON1 with HDL is mediated in part by its signal peptide, by binding phospholipids directly, rather than binding apo A1. The retained signal peptide may allow transfer of the protein between phospholipid surfaces., online information: The Singapore human mutation and polymorphism database, polymorphism: The allelic form of the enzyme with Gln-192 (allozyme A) hydrolyzes paraoxon with a low turnover number and the one with Arg-192 (allozyme B) with a high turnover number., PTM: Glycosylated., PTM: Present in two forms, form B contains a disulfide bond, form A does not., PTM: The signal sequence is not cleaved., similarity: Belongs to the paraoxonase family., subunit: Heterooligomer with phosphate-binding protein (HPBP). Interacts with CLU., tissue specificity: Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas.,

## 研究领域 (Research Area)

Neuroscience

## 图片 (Image Data)



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:200

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**注意事项 (Note)**

For research use only .