

**PON1 Polyclonal Antibody**

<b>Catalog No :</b>	YT5983
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	PON1
<b>Gene Name :</b>	PON1 PON
<b>Protein Name :</b>	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)
<b>Human Gene Id :</b>	5444
<b>Human Swiss Prot No :</b>	P27169
<b>Mouse Gene Id :</b>	18979
<b>Mouse Swiss Prot No :</b>	P52430
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human PON1. AA range:51-100
<b>Specificity :</b>	The antibody detects endogenous PON1
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:50-200, ELISA 1:10000-20000. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**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],

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**Function :** catalytic activity:A phenyl acetate + H(2)O = a phenol + acetate.,catalytic activity:An aryl dialkyl phosphate + H(2)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 ass

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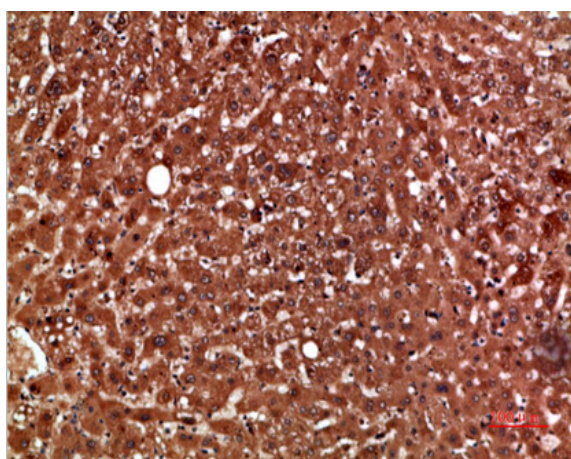
**Subcellular Location :** Secreted, extracellular space.

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**Expression :** Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas.

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## Products Images



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