

PON1 Polyclonal Antibody

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

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

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],

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

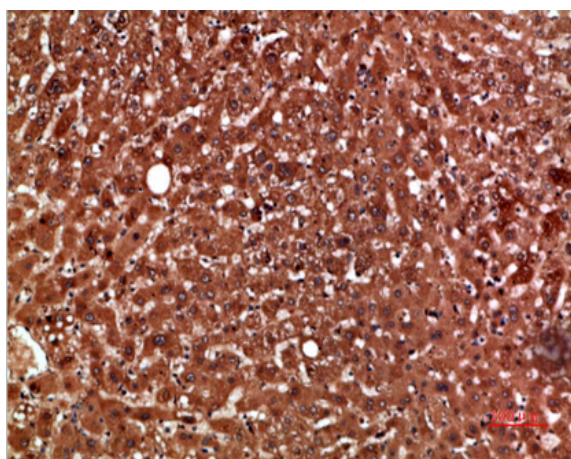
Subcellular Location : Secreted, extracellular space.

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

Sort : 12903

No4 : 1

Products Images



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