



PON1 Polyclonal Antibody

Catalog No	YP-Ab-10708
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
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 aryldialkylphosphatase 1)
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-200, ELISA 1:10000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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 aryldialkylphosphatase 1)
Observed Band	
Cell Pathway	Secreted, extracellular space.
Tissue Specificity	Plasma, associated with HDL (at protein level). Expressed in liver, but not in heart, brain, placenta, lung, skeletal muscle, kidney or pancreas.
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



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],

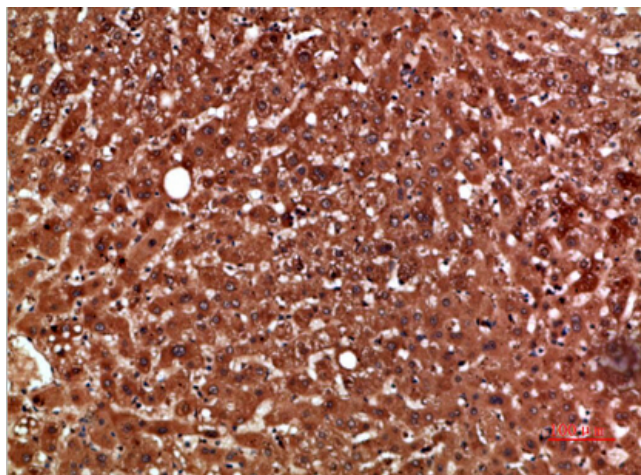
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



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