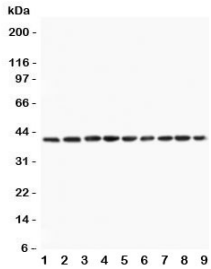
PON1 Antibody (R31377)

Catalog No.	Formulation	Size
R31377	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P27169
Localization	Cytoplasmic, secreted
Applications	Western Blot : 0.5-1ug/ml
Limitations	This PON1 antibody is available for research use only.



Western blot testing of PON1 antibody and Lane 1: rat liver; 2: (r) lung; 3: human placenta; 4: (r) testis; 5: (h) HeLa; 6: mouse HEPA; 7: (h) A549; 8: (h) Jurkat; 9: (h) SKOV lysate. Expected/observed molecular weight ~40 kDa.

Description

Paraoxonase 1, also known as Aromatic esterase 1, is an enzyme that in humans is encoded by the PON1 gene. This protein has esterase and more specifically paraoxonase activity. PON1 is responsible for hydrolysing organophosphate pesticides and nerve gasses. Polymorphisms in the gene significantly affect the catalytic ability of the enzyme. Paraoxonase 1 is also a major anti-atherosclerotic component of high-density lipoprotein (HDL). The gene is activated by PPAR-gamma, which increases synthesis and release of PON1 enzyme from the liver, reducing atherosclerosis.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the PON1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human Paraoxonase 1 (FLDPYLQSWEMYLGLA) was used as the immunogen for this PON1 antibody.

Storage

After reconstitution, the PON1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.