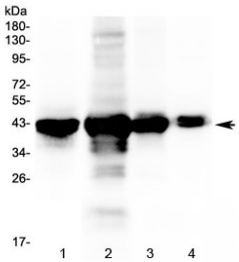
PON1 Antibody (R32845)

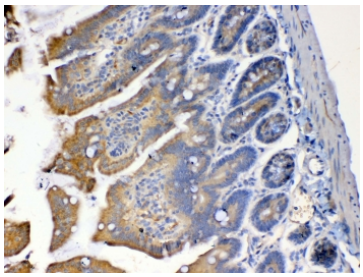
Catalog No.	Formulation	Size
R32845	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

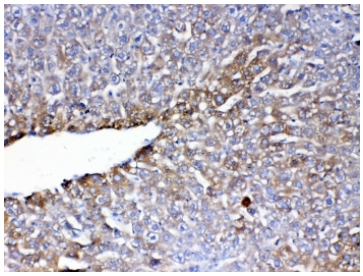
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P52430
Localization	Cytoplasmic, secreted
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml ELISA (Capture; Mouse Recombinant Protein) : 0.1-0.5ug/ml (BSA-free format available)
Limitations	This PON1 antibody is available for research use only.



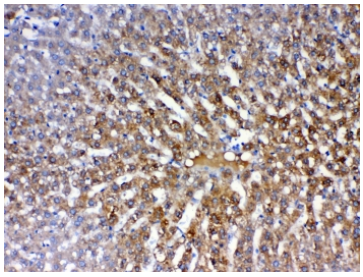
Western blot testing of 1) rat liver, 2) mouse liver, 3) mouse lung and 4) mouse testis tissue lysate with PON1 antibody at 0.5ug/ml. Predicted molecular weight: ~40 kDa.



IHC testing of FFPE mouse small intestine tissue with PON1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE mouse liver tissue with PON1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE rat liver tissue with PON1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.

Description

Serum paraoxonase/arylesterase 1 (PON1), also known as aromatic esterase 1, is an enzyme that in humans is encoded by the PON1 gene. It is mapped to 7q21.3. This gene has esterase and more specifically paraoxonase activity. PON1 is responsible for hydrolysing organophosphate pesticides and nerve gasses. Polymorphisms in the PON1 gene significantly affect the catalytic ability of the enzyme. PON1 (paraoxonase 1) is also a major anti-atherosclerotic component of high-density lipoprotein (HDL). The PON1 gene is activated by PPAR-?, which increases synthesis and release of paraoxonase 1 enzyme from the liver, reducing atherosclerosis.

Application Notes

Optimal dilution of the PON1 antibody should be determined by the researcher.

Immunogen

A recombinant mouse protein corresponding to amino acids A30-D274 was used as the immunogen for the 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.

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