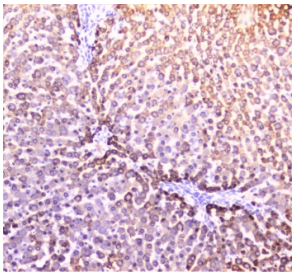
# PON1 Antibody (RQ4599)

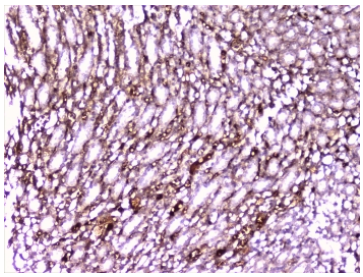
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ4599 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

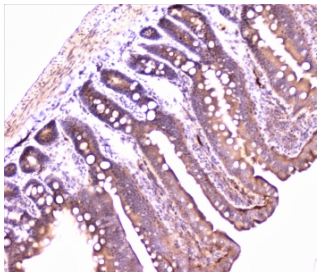
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | P55159 |
| **Localization** | Cytoplasmic, extracellular |
| **Applications** | Western Blot : 0.5-1ug/ml<br>IHC (FFPE) : 1-2ug/ml<br>Direct ELISA : 0.1-0.5ug/ml (recombinant rat protein) |
| **Limitations** | This PON1 antibody is available for research use only. |



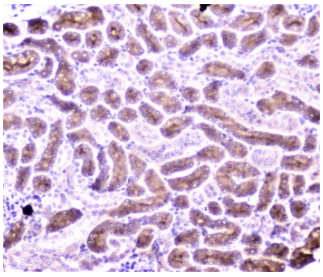
IHC staining of FFPE rat liver with PON1 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



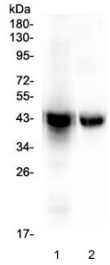
IHC staining of FFPE rat kidney with PON1 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat small intestine with PON1 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE mouse kidney with PON1 antibody at 2ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.




Western blot testing of 1) rat liver and 2) mouse liver lysate with PON1 antibody at 0.5ug/ml. Predicted molecular weight ~40 kDa.

## 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

Amino acids A30-D274 from the rat protein were 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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