

## Product datasheet for **CF502611**

### PON1 Mouse Monoclonal Antibody [Clone ID: OTI1F7]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI1F7   |
| Applications:           | ELISA, FC, IHC, WB   |
| Recommended Dilution:   | WB 1:2000, IHC 1:150, FLOW 1:100   |
| Reactivity:             | Human  |
| Host:                   | Mouse  |
| Isotype:                | IgG2b  |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human PON1 (NP_000437) produced in HEK293T cell.  |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 39.6 kDa   |
| Gene Name:              | paraoxonase 1  |
| Database Link:          | <a href="#">NP_000437</a><br><a href="#">Entrez Gene 5444 Human</a><br><a href="#">P27169</a>  |



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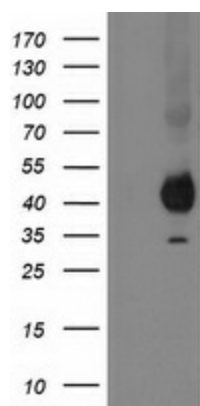
**Background:** The enzyme encoded by this gene is an arylesterase that mainly hydrolyzes paroxon to produce p-nitrophenol. Paroxon is an organophosphorus anticholinesterase compound that is produced in vivo by oxidation of the insecticide parathion. Polymorphisms in this gene are a risk factor in coronary artery disease. The gene is found in a cluster of three related paraoxonase genes at 7q21.3. [provided by RefSeq]

**Synonyms:** ESA; MVCD5; PON

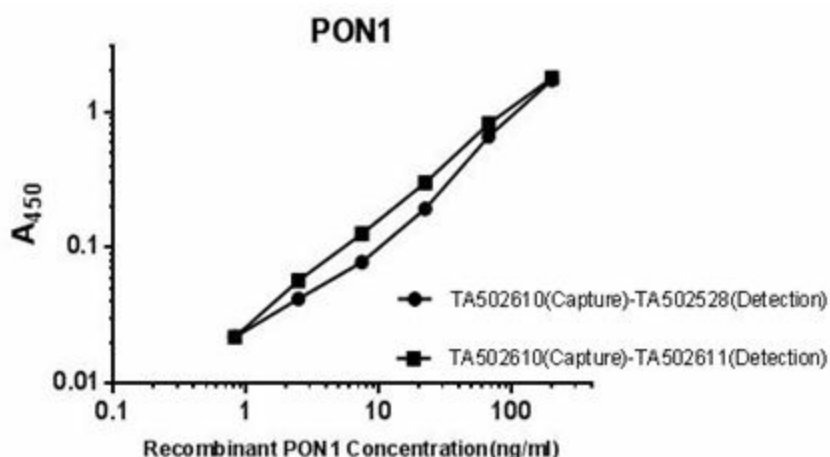
**Protein Families:** Druggable Genome, Secreted Protein

**Protein Pathways:** Metabolic pathways

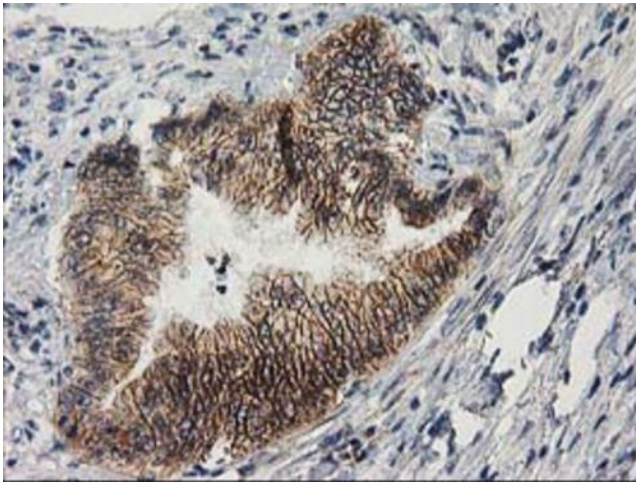
**Product images:**



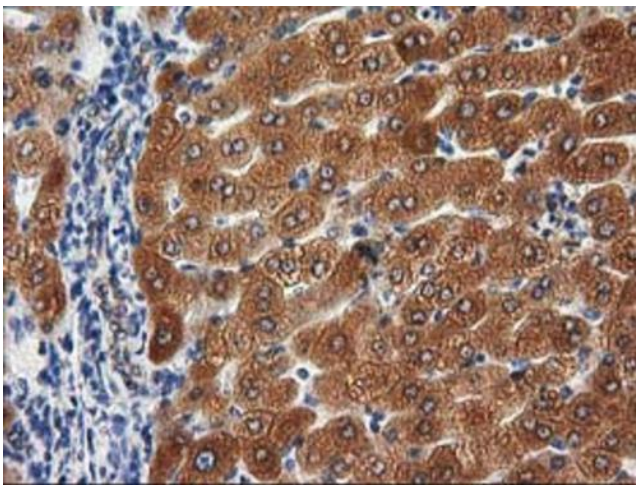
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PON1 (Cat# [RC210356], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PON1(Cat# [TA502611]). Positive lysates [LY400156] (100ug) and [LC400156] (20ug) can be purchased separately from OriGene.



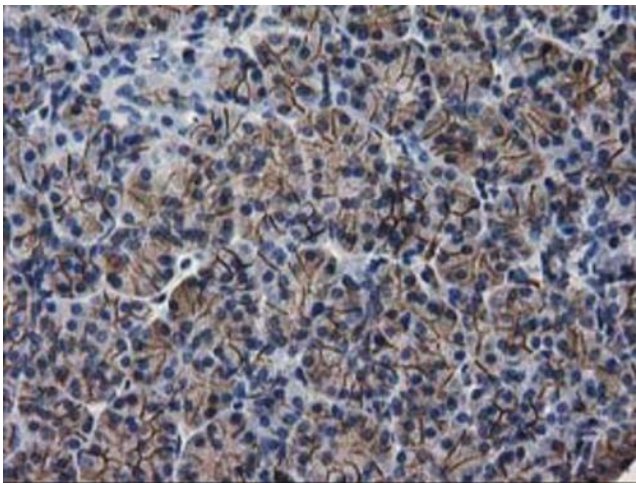
Standard curve for ELISA analysis with PON1 recombinant protein (dilution range from 0.8ng/ml to 200ng/ml) using PON1 Capture Antibody (Cat# [TA502610]) at 5ug/ml and HRP conjugated PON1 Detection mAb (Cat# [TA502528]/[TA502611]) at 0.16ug/ml.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])

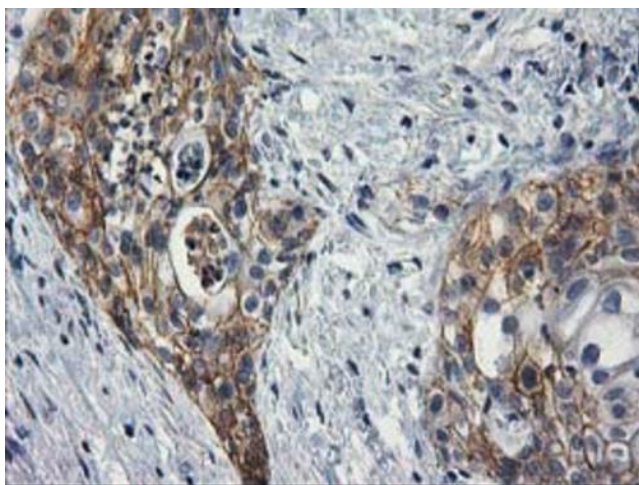


Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])

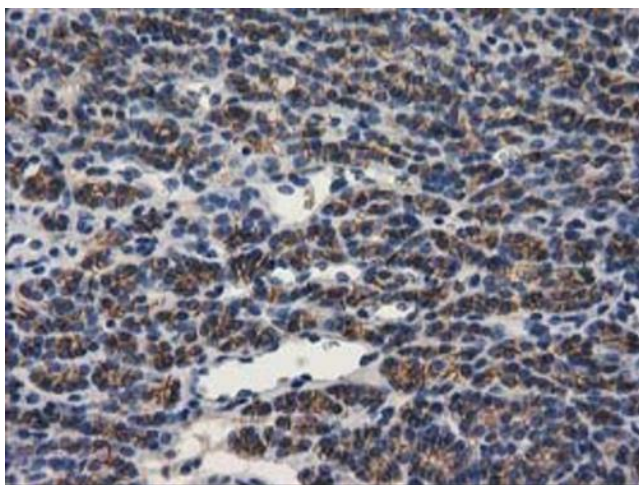


Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])

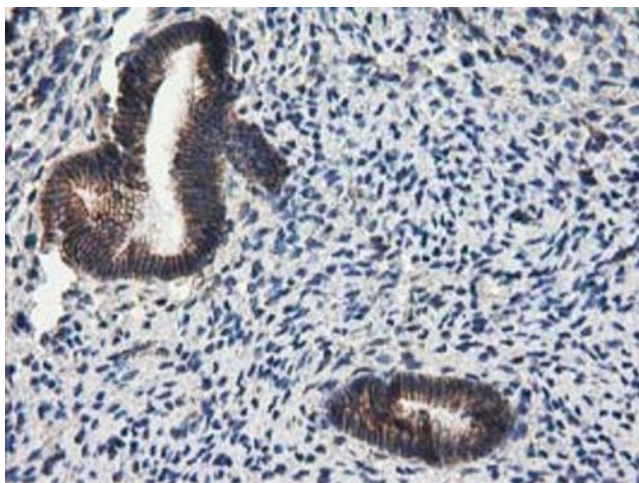




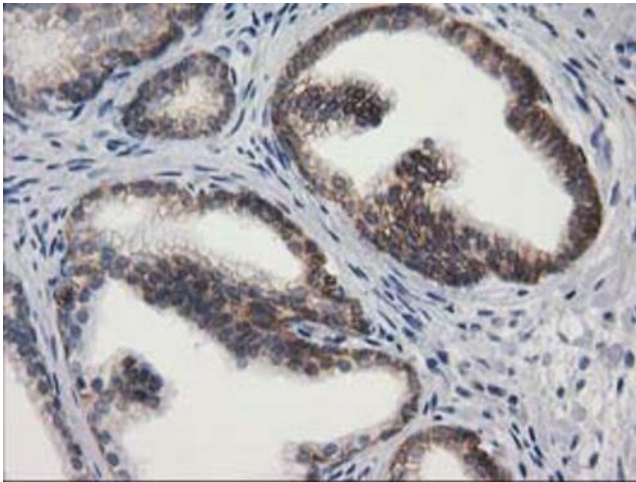
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])



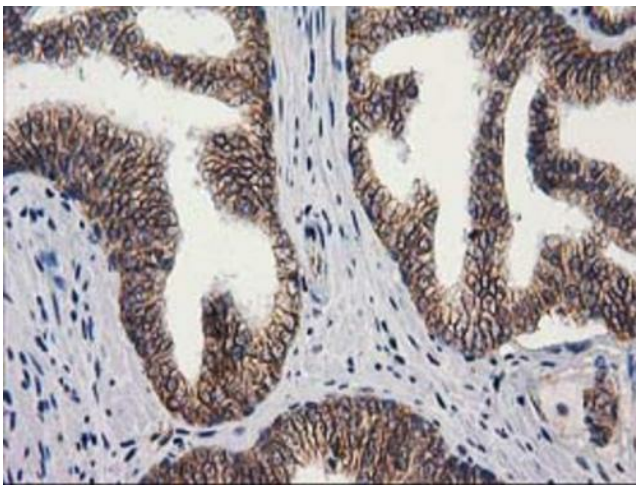
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])



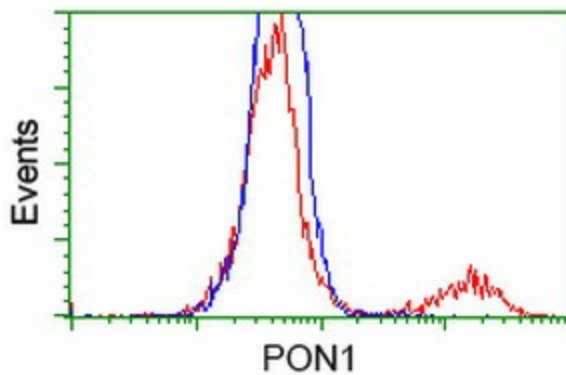
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])



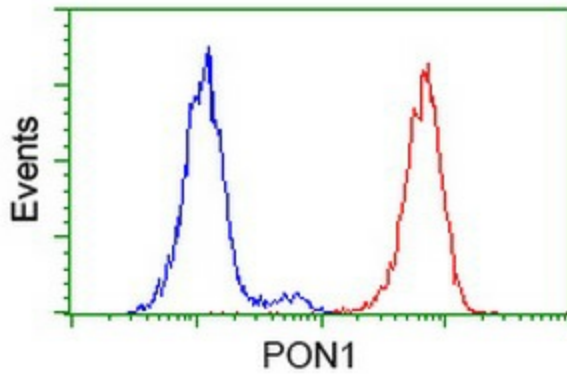
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])



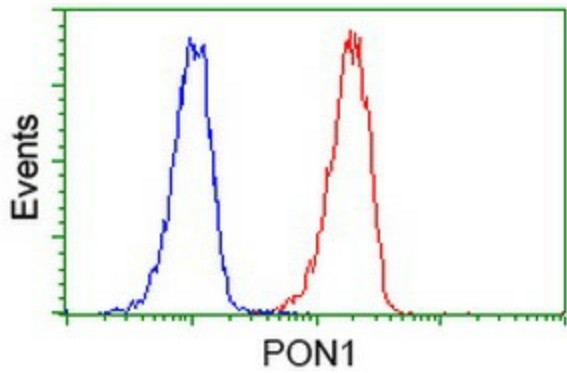
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-PON1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502611])



HEK293T cells transfected with either [RC210356] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PON1 antibody ([TA502611]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-PON1 antibody ([TA502611]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-PON1 antibody ([TA502611]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).