OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF502528

PON1 Mouse Monoclonal Antibody [Clone ID: OTI2D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2D4
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, 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:	NP_000437 Entrez Gene 5444 Human P27169

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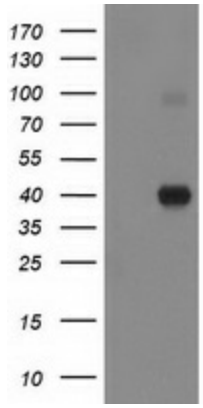
Background: The enzyme encoded by this gene is an arylesterase that mainly hydrolyzes paroxon to produce p-nitrophenol. Paroxon is an organophosphorus anticholinesterase compound that is produced in vivo by oxidation of the insecticide parathion. Polymorphisms in this gene are a risk factor in coronary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

Synonyms: ESA; MVCD5; PON

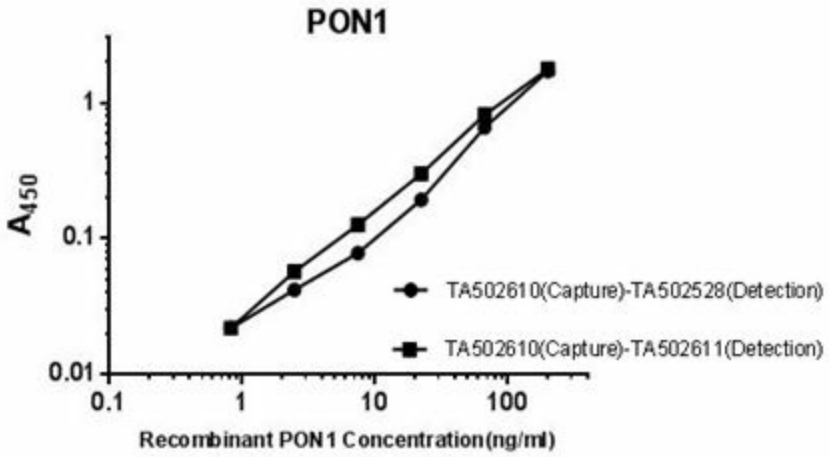
Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Metabolic pathways

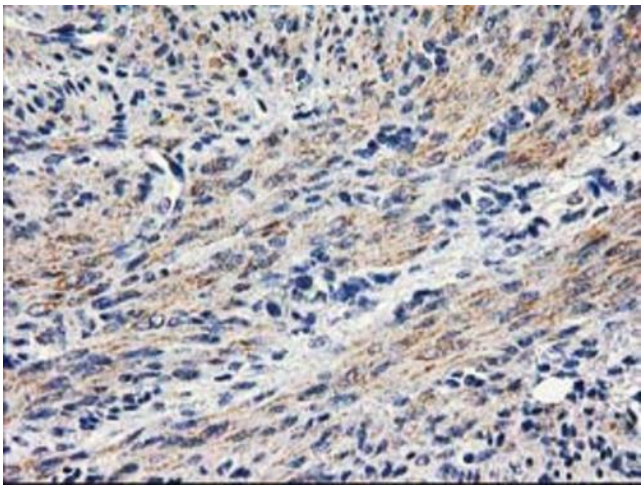
Product images:



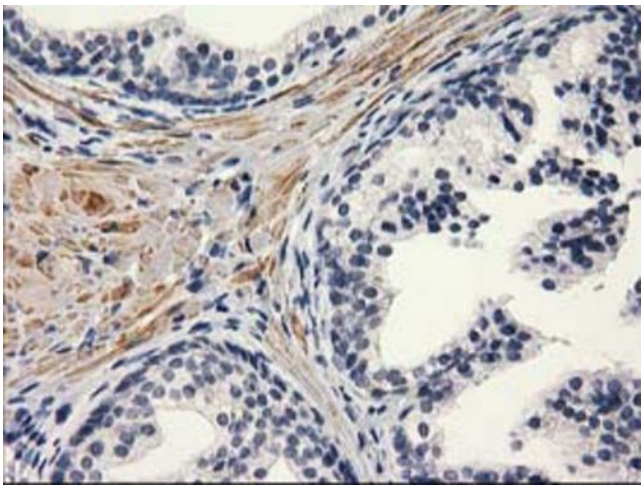
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PON1 ([RC210356], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PON1 ([TA502528]). Positive lysates [LY400156] (100ug) and [LC400156] (20ug) can be purchased separately from OriGene.



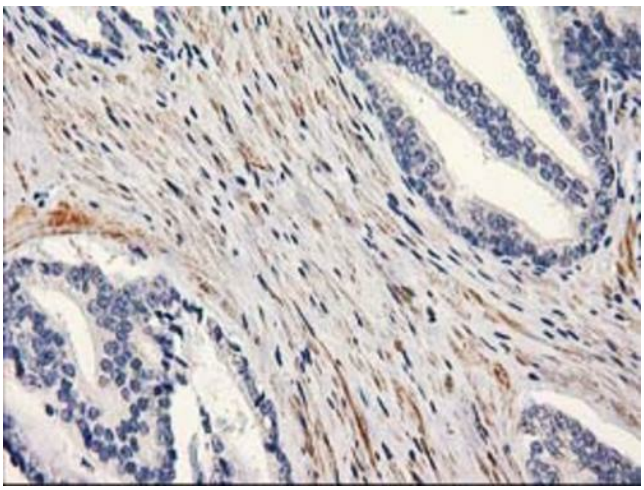
Standard curve for ELISA analysis with PON1 recombinant protein (dilution range from 0.8ng/ml to 200ng/ml) using PON1 Capture Antibody (Cat# [TA502610]) at 5ug/ml and HRP conjugated PON1 Detection mAb (Cat# [TA502528]/[TA502611]) at 0.16ug/ml.



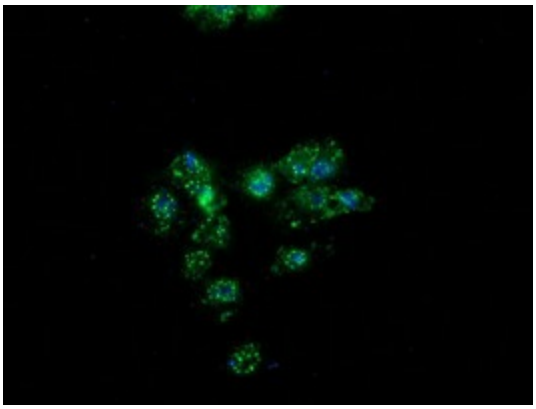
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PON1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



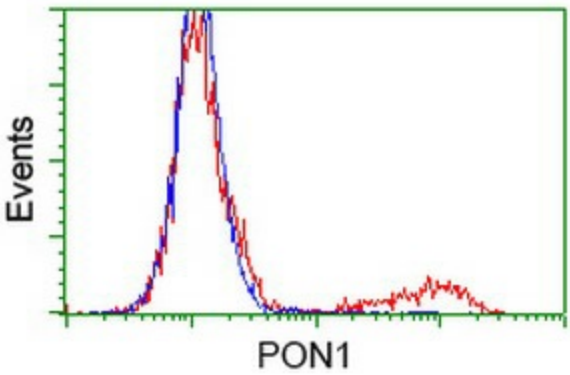
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-PON1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



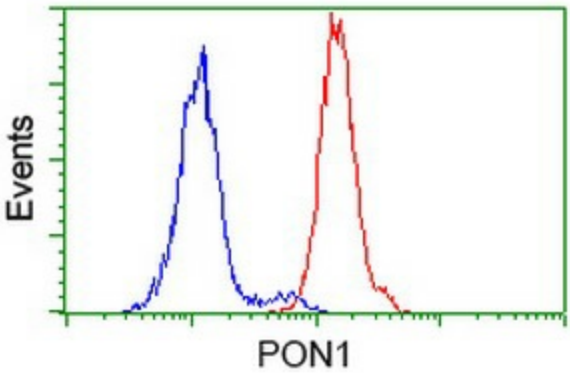
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-PON1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



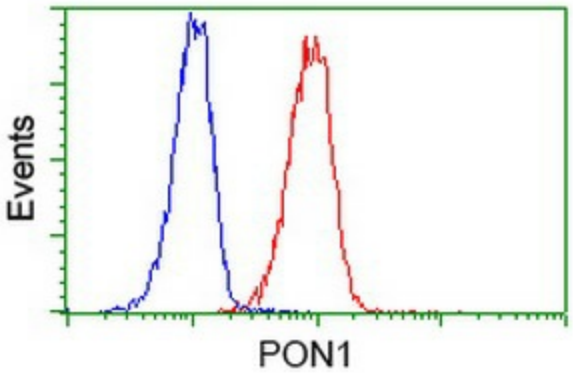
Anti-PON1 mouse monoclonal antibody ([TA502528]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PON1 ([RC210356]).



HEK293T cells transfected with either [RC210356] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PON1 antibody ([TA502528]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-PON1 antibody ([TA502528]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-PON1 antibody ([TA502528]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).