PON2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PON2, Polyclonal Antibody
Full Product Name	PON2, NT (PON2, Serum paraoxonase/arylesterase 2, Aromatic esterase 2, Serum aryldialkylphosphatase 2) (MaxLight 490)
Product Gene Name	anti-PON2 antibody
Product Synonym Names	PON2; Serum paraoxonase/arylesterase 2; Aromatic esterase 2; Serum aryldialkylphosphatase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43.5 kDa
OMIM	602447
3D Structure	ModBase 3D Structure for Q15165
Immunogen	PON2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-107 amino acids from the N-terminal region of human PON2.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-PON2 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PON2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PON2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-PON2 antibody	This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound, and may act as a cellular antioxidant, protecting cells from oxidative stress. Hydrolytic activity against acylhomoserine lactones, important bacterial quorum-sensing mediators, suggests the encoded protein may also play a role in defense responses to pathogenic bacteria. Mutations in this gene may be associated with vascular disease and a number of quantitative phenotypes related to diabetes. Alternatively spliced transcript variants encoding different isoforms have been described.

Product References and Citations for anti-PON2 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Altenhofer, S., et al. J. Biol. Chem. 285(32):24398-24403(2010). Ticozzi, N., et al. Ann. Neurol. 68(1):102-107(2010). Wang, Y., et al. Diabet. Med. 27(4):376-383(2010). Cross, D.S., et al. BMC Genet. 11, 51 (2010).
Other Notes	Small volumes of anti-PON2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PON2 purchase	MBS6335901 is an antibody targeting PON2. Also known as PON2, NT (PON2, Serum paraoxonase/arylesterase 2, Aromatic esterase 2, Serum aryldialkylphosphatase 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PON2. It may not necessarily be applicable to this product.

NCBI GI #	66529294
NCBI GeneID	5445
NCBI Accession #	NP_000296.2
UniProt Primary Accession #	Q15165
UniProt Secondary Accession #	O15114; O15115; O75856; Q5FBX7; Q86YL0; A4D1H7; B2RCP9; B4DJD5
UniProt Related Accession #	Q15165
GenBank Nucleotide #	NM_000305.2
NCBI Official Full Name	serum paraoxonase/arylesterase 2 isoform 1
NCBI Official Synonym Full Names	paraoxonase 2
NCBI Official Symbol	PON2
UniProt Protein Name	Serum paraoxonase/arylesterase 2
UniProt Synonym Protein Names	Aromatic esterase 2; A-esterase 2; Serum aryldialkylphosphatase 2
Protein Family	Serum paraoxonase/arylesterase
UniProt Gene Name	PON2
UniProt Synonym Gene Names	PON 2; A-esterase 2
UniProt Entry Name	PON2_HUMAN
NCBI Protein Information	serum paraoxonase/arylesterase 2; A-esterase 2; PON 2; aromatic esterase 2; paraoxonase nirs; serum aryldialkylphosphatase 2
UniProt Comments for PON2	PON2: Capable of hydrolyzing lactones and a number of aromatic carboxylic acid esters. Has antioxidant activity. Is not associated with high density lipoprotein. Prevents LDL lipid peroxidation, reverses the oxidation of mildly oxidized LDL, and inhibits the ability of MM-LDL to induce monocyte chemotaxis. Belongs to the paraoxonase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.1.81; Hydrolase; EC 3.1.1.2; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 7q21.3 Cellular Component: mitochondrion; lysosome; plasma membrane; extracellular region; nucleus Molecular Function: identical protein binding; arylesterase activity; metal ion binding Biological Process: response to oxidative stress; aromatic compound catabolic process
Research Articles on PON2	**1.** We conclude that the PON1 55M and PON2 311C alleles are independent risk factors for CAAD in essential hypertension patients from the Xinjiang Han population.

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