

Anti-PON2 Picoband Antibody

Catalog # ABO12465

Product Information

Application	WB
Primary Accession	Q15165
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Serum paraoxonase/arylesterase 2(PON2) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5445
Other Names	Serum paraoxonase/arylesterase 2, PON 2, 3.1.1.2, 3.1.1.81, Aromatic esterase 2, A-esterase 2, Serum arylalkylphosphatase 2, PON2
Calculated MW	39381
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Membrane ; Peripheral membrane protein .
Tissue Specificity	Widely expressed with highest expression in liver, lung, placenta, testis and heart. .
Source	Eukaryota
Protein Name	Serum paraoxonase/arylesterase 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PON2 (241-273aa AHEIHVLEKHTNMNLTQLKVELDLTLDNLSID), different from the related mouse and rat sequences by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated

freezing and thawing.

Protein Information

Name	PON2
Function	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.
Cellular Location	Membrane; Peripheral membrane protein
Tissue Location	Widely expressed with highest expression in liver, lung, placenta, testis and heart.

Background

PON2 is an enzyme that in humans is encoded by the PON2 gene. It is mapped to 7q21.3. 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 and 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.

Images



Anti-PON2 Picoband antibody, ABO12465, Western blotting
All lanes: Anti PON2 (ABO12465) at 0.5ug/ml
WB: HELA Whole Cell Lysate at 40ug
Predicted bind size: 39KD
Observed bind size: 39KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.