
Product Name: KD-Validated Paraoxonase 2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00954

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 39.4kDa

Antigen Information

Gene Name	PON2 Paraoxonase 2; Serum Paraoxonase/Arylesterase 2; Serum Aryldialkylphosphatase 2;
Alternative Names	Aromatic Esterase 2; Paraoxonase Nirs; Arylesterase 2; A-Esterase 2; PON 2; EC 3.1.1.81; EC 3.1.1.2
Gene ID	5445.0
SwissProt ID	Q15165
Immunogen	A synthesized peptide derived from human PON2

Background

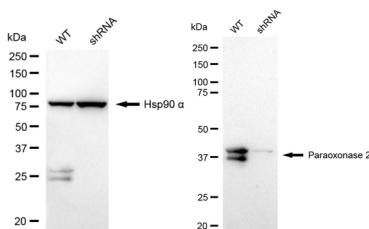
This gene encodes a member of the paraoxonase gene family, which includes three known members located adjacent to each other on the long arm of chromosome 7. The encoded protein is ubiquitously expressed in human tissues, membrane-bound,

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. [provided by RefSeq, Jul 2008]

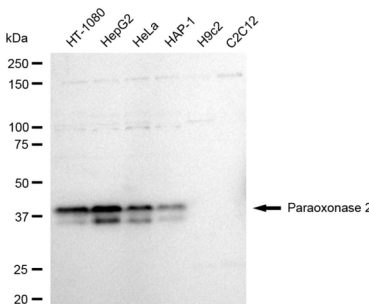
Research Area

Neuroscience, Cardiovascular, Signal Transduction, Metabolism

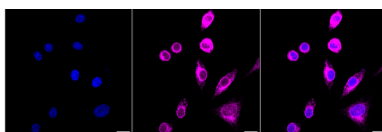
Image Data



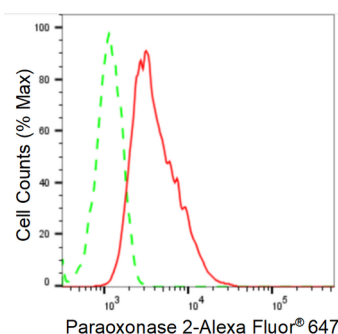
Western blotting analysis using paraoxonase 2 antibody (KVA00954). Paraoxonase 2 expression in wild type (WT) and paraoxonase 2 (PON2) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with paraoxonase 2 antibody (KVA00954, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Paraoxonase 2 antibody (KVA00954). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Paraoxonase 2 antibody (KVA00954, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Paraoxonase 2 antibody (KVA00954, 1:1,000). Nuclei were stained blue with DAPI; Paraoxonase 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Paraoxonase 2 expression in HepG2 cells using Paraoxonase 2 antibody (KVA00954, 1:2,000). Green, isotype control; red, Paraoxonase 2.