

Human/Mouse/Rat PON3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4345

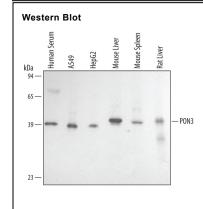
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat PON3 in Western blots. In Western blots, this antibody did not cross-react with recombinant human PON1 or PON2.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human PON3 Ala30-Leu354 Accession # Q15166
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA



Detection of Human/Mouse/Rat PON3 by Western Blot. Western blot shows human serum, lysates of A549 human lung carcinoma cell line, and HepG2 human hepatocellular carcinoma cell line, mouse liver and spleen tissue, and rat liver tissue. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat PON3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4345) followed by HRPconjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for PON3 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.	

BACKGROUND

The paraoxonase (PON) gene family of antioxidant enzymes includes three known members located adjacent to each other on chromosome 7. Paraoxonase/lactonase 3 (PON3) is a 354 amino acid, 39.6 kDa protein that is secreted into the bloodstream and associates with high-density lipoprotein (HDL). PON3 has lactonase activity (EC 3.1.1) and rapidly hydrolyzes lactones. PON3 exhibits no paraoxonase and very limited arylesterase activities. PON3 is an important antioxidant and can inhibit the oxidation of low-density lipoprotein (LDL), a function that may slow the initiation and progression of atherosclerosis. PON3 is glycosylated at Asn323. Alternatively spliced variants encoding different protein isoforms have been described; however, only one has been fully characterized. Human PON3 shares 81% amino acid identity with mouse and rat PON3.

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