Monoclonal Rat IgG_{2A} Clone # 453709 Catalog Number: MAB4344

DESCRIPTION

Species Reactivity	Human	
Specificity	Detects endogenous human PON2 in Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) F or rhPON3.	
Source	Monoclonal Rat IgG _{2A} Clone # 453709	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	<i>E. coli</i> -derived recombinant human PON2 Ala30-Leu354 Accession # NP_000296	
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 Ivophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

DATA

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

Western Blot Detection of Human PON2 by Western Blot. Western blot shows lysates of human liver tissue, Huh-7 human hepatoma cell line, HepG2 human epG2 HeLa kDa hepatocellular carcinoma cell line, and HeLa human cervical epithelial carcinoma cell line. PVDF 94 membrane was probed with 0.5 µg/mL of Human 65 -PON2 Monoclonal Antibody (Catalog # MAB4344) followed by HRP-conjugated Anti-Rat IgG PON2 Secondary Antibody (Catalog # HAF005). A 39 specific band was detected for PON2 at approximately 40-42 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2. 23 -19 PREPARATION AND STORAGE Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 - 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/arylesterase 2 (PON2) is a 354 amino acid, 39 kDa protein that is widely expressed in a variety of tissues and may act as a cellular antioxidant, protecting cells from oxidative stress. PON2 has arylesterase and aryldialkylphosphatase activity (EC 3.1.1.2 and EC 3.1.8.1) and can hydrolyze a number of organophosphate substrates and aromatic carboxylic acid esters. PON2 is membrane-bound and has several potential glycosylation sites. Sequence polymorphisms in this gene may be associated with coronary heart disease and a number of phenotypes related to diabetes. PON2 is not associated with HDL but can prevent LDL lipid peroxidation and reverse the oxidation of mildly oxidized LDL. Alternatively spliced transcript variants encoding different isoforms have been described.

Rev. 2/7/2018 Page 1 of 1



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