



BML

**ORDERING INFORMATION**

**Catalog Number:** BML050

**Lot Number:**

**Size:** 50  $\mu$ g

**Formulation:** 0.2  $\mu$ m filtered PBS solution

**Storage:** -80°C

**Specificity:** human paraoxonase-1

**Immunogen:** paraoxonase-1 purified from pooled plasma

**Ig Type:** IgG2b

**Application:** Western blot  
Sandwich ELISA

***Anti-human Paraoxonase-1 Antibody***  
***PON-3-5Db, Biotin***

***Preparation***

Produced in mice immunized with paraoxonase-1 (PON-1) purified from human plasma. PON-1 specific IgG was purified from mouse ascites fluid with a protein A-Sepharose.

***Formulation***

0.2  $\mu$ m filtered PBS solution

***Storage***

IgG in PBS solution are stable for twelve months from the date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles.

***Specificity***

This antibody has been selected for its ability to bind for human paraoxonase-1 (1).

***Additional Applications***

**Western Blot** – Thai antibody can be used at 0.5 – 1.0  $\mu$ g/mL with the appropriate secondary reagent to detect human plasma PON-1. The detection limit for purified PON-1 and plasma sample is approximately 0.01  $\mu$ g/lane and 0.05  $\mu$ L, respectively, under non-reducing and reducing conditions.

**Sandwich ELISA** – This antibody can be used as a capture antibody in a human PON-1 ELISA in combination with the monoclonal detection antibody (Catalog #PO4C1b). A general protocol is provided on the next page. Using plates coated with 100  $\mu$ L/well of the capture antibody, in combination with 100  $\mu$ L/well of the detection antibody at 500 ng/mL, an ELISA for sample volumes of 100  $\mu$ L can be obtained. Titrate each preparation of the serum sample for standard preparation to arrive at the most suitable dose range. For this antibody pair, a two-fold dilution series starting at 600 pg/mL is suggested. For more information, please see the next page or the reference (1).

**Optimal dilutions should be determined by each laboratory for each application.**

***References***

- (1) Kujiraoka et al., A sandwich enzyme-linked immunosorbent assay for human serum paraoxonase concentration. *J Lipid Res*, 2000;41:1358-1363.
- (2) van Himbergen et al., Indications that paraoxonase-1 contributes to plasma high density lipoprotein levels in familial hypercholesterolemia. *J Lipid Res*, 2005;46:445-451.
- (3) Kujiraoka et al., Effects of intravenous apolipoprotein A-I/phosphatidylcholine discs on paraoxonase and platelet-activating factor acetylhydrolase in human plasma and tissue fluid. *Atherosclerosis*, 2004;176:57-62.
- (4) Noto et al, Exclusive association of paraoxonase 1 with high-density lipoprotein particles in apolipoprotein A-I deficiency. *Biochem Biophys Res Commun*, 2001;289:395-401.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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