



BML

ORDERING INFORMATION

Catalog Number: BML027

Lot Number:

Size: 50 µg

Formulation: 0.2 µm 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-4C-1, Biotinylated**

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 µm 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 – This antibody can be used at 0.5 – 1.0 µg/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 µg/lane and 0.05 µL, respectively, under non-reducing and reducing conditions.

Sandwich ELISA – This antibody can be used as a detection antibody in a human PON-1 ELISA in combination with the monoclonal capture antibody (Catalog #PO510D). A general protocol is provided on the next page. Using plates coated with 100 µL/well of the capture antibody, in combination with 100 µL/well of the detection antibody at 500 ng/mL, an ELISA for sample volumes of 100 µL 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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