

**Antibody to OxPL (10C12)**
MOUSE MONOCLONAL

Catalog Number: AB-V59
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgMk
Clone: 10C12
Immunogen: POVPC/PGPC (OxPL)

Background: Phospholipids are essential structural components of all cell membranes, consisting of a hydrophilic phosphate-containing head and two hydrophobic fatty acid tails linked via an alcohol residue. Beyond their biological roles, purified phospholipids have applications in nanotechnology and materials science. Oxidized phospholipids, including derivatives such as POVPC and PGPC, are biologically active molecules implicated in cardiovascular disease and inflammatory processes.

Specificity & Preparation: This mouse IgM Kappa monoclonal antibody was generated from spleens of ApoE KO mice fed a high-fat Western diet for 7 months. The antibody exhibits specificity to POVPC/PGPC.

Usage: Applications include ELISA and immunohistochemistry. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.



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Selected References:

1. Cherepanova OA, Srikakulapu P, Greene ES, Chaklader M, Haskins RM, McCanna ME, Bandyopadhyay S, Ban B, Leitinger N, McNamara CA, Owens GK (2020) Novel Autoimmune IgM Antibody Attenuates Atherosclerosis in IgM Deficient Low-Fat Diet-Fed, but Not Western Diet-Fed Apoe^{-/-} Mice. *Arterioscler Thromb Vasc Biol* 40(1):206-219. doi: 10.1161/ATVBAHA.119.312771 PMID: 31645128

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