



## PRODUCT DATA SHEET

**Product:** Anti-VPARP, clone p193-4

**Cat. No:** MC-228 (1 mL)

**Background:**

VPARP is an antibody to the minor vault protein.

**Specificity:**

This clone (P193-4) reacts with an internal epitope (amino acids 491-494, HPGE) or the minor vault protein (VPARP), which is over-expressed in various human non-P-glycoprotein MDR tumor cell lines, accordingly to an increase in the number of vault particles.

**Ig Isotype:**

Murine IgG<sub>2b</sub> kappa

**Immunogen:**

Clone p193-4 was raised against an E. coli lysate transformed with the pET28a(+) expression vector containing amino acids 408-611 of the p193 cDNA.

**Format:**

1 mL antibody solution containing approximately 250ug of immunoglobulin per mL. The solution contains 1% BSA and 0.1% sodium azide.

**Storage and Stability:**

Store at 4°C for 2 months, -20°C for 1 year. Avoid freeze/thaw cycles.

**Applications and Suggested Dilutions:**

- Western blotting: (preferably with ECL) Use and a dilution of 1:10 to 20.
- Immunohistochemistry: Use at a dilution of 1:10-20 for staining of paraformaldehyde (4%) fixed cytospin preparations and frozen tissue sections. The following pretreatment is recommended: 10 min with 20 mM glycine in PBS (pH 7.5) and 10 min. with 6 N guanidine hydrochloride in 50 mM Tris-HCL (pH 7.5)<sup>1</sup>. Optimal conditions for paraffin-embedded tissues have yet to be defined.
- Flow Cytometry: Optimal conditions have yet to be defined.

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.