



PRODUCT DATA SHEET

Product: Anti-Calcium Pump, plasma membrane, Clone JA9

Cat. No: MC-737 (100 µg/500 µl)

Background:

At least four genes contain the code for isoforms of plasma membrane calcium pump (PMCA). Each isoform has, in turn, two or more alternative splicing variants.

Specificity:

Clone JA9 recognizes proteins of about 130 kDa identified as human plasma membrane Ca²⁺ pump (hPMCA) isoform 4a and 4b. Does not recognize hPMCA isoforms 1, 2 or 3.

Positive Control: hPMCA4a or 4b transfected cells and Brain.

Cellular Localization: Cell Membrane

Species Reactivity:

Human and chimpanzee, others not tested.

Ig Isotype: IgG

Immunogen:

Purified human erythrocyte Ca²⁺ pump.

Hybridoma:

Produced by the fusion between BALB/c splenocytes and mouse myeloma SP2/0 cells.

Format:

Monoclonal antibody against human Plasma Membrane Calcium Pump. This product is available at a concentration of 100 µg/500 µl in 10 mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Purified from ascites fluid by Protein G chromatography.

Storage and Stability:

Stable for 24 months when stored at 2-8°C.

Applications and Suggested Dilutions:

■ Western blotting: 1-2 µg/ml for 2 hrs. at RT

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

References:

1. Caride AJ, et al. (1996) Detection of isoform 4 of the plasma membrane calcium pump in human tissues by using isoform-specific monoclonal antibodies. *Biochem. J.* 316: 353-359.

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.