

## OriGene Technologies, Inc.

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# AM26704AC-N Mouse IgG2b Isotype Control - APC

Quantity: 0.1 mg
Concentration: 0.1 mg/ml

**Background:** The specificity of staining by monoclonal antibodies to target antigens should be

verified by establishing the amount of non-specific antibody binding. Especially at higher concentration (more than 15  $\mu$ g/ml) the antibody staining usually has consignable background. To this end a non-reactive immunoglobulin of the same isotype is included as a negative control for each specific monoclonal antibody used in a particular immunoassay. The monoclonal antibody MPC-11 was generated against an epitope irrelevant for human, mouse, and rat material, and can thus be used for evaluation of the background staining that is caused by general nonspecific interactions between an mouse IgG2b molecule and the respective sample under the

particular conditions. This shall help the customer to set up the experimental conditions so that the nonspecific binding of any antibody is abolished.

Host / Isotype: Mouse / IgG2b

Recommended Isotype

**Controls:** 

SM12APC

Clone: MPC-11

Immunogen: KLH-coupled trinitrophenol

Format: State: Liquid purified Ig fraction

**Buffer System:** Phosphate buffered saline (PBS)

Preservatives: 15 mM sodium azide

Label: APC - Conjugated with cross-linked Allophycocyanin (APC) under optimum

conditions. The conjugate is purified by size-exclusion chromatography.

**Applications:** The reagent is intended as isotype control for Flow Cytometry analysis to establish

the amount of non-specific antibody binding. For your particular experiment, use the same concentration of this isotype control antibody as the recommended working concentration of the antigen-specific antibody. Also, when working with prediluted

antibodies, dilute the isotype control to the same concentration as is the

concentration of the antigen-specific antibody in the prediluted antibody solution you are using. If under particular experimental conditions the background signal of the isotype control is too high (usually when working concentrations of used antibodies are above 10 µg per ml of incubation mixture), change the conditions of your

experiment to reduce the background.

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: This mouse IgG2b (kappa) monoclonal antibody (clone MPC-11) reacts with an epitope

irrelevant for a variety of resting, activated, live, and fixed.

Species Reactivity: Tested: Negative on Human, Mouse, and Rat



#### Storage:

Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light. Shelf life: one year from despatch.

#### **General Readings:**

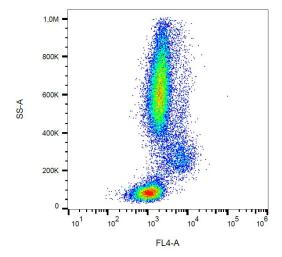
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#### **Pictures:**

Example of nonspecific mouse IgG2b (MPC-11) PE-Cy<sup>TM</sup>5 signal on human peripheral blood; surface staining, 1  $\mu$ g/ml.





Example of nonspecific mouse IgG2b (MPC-11) PerCP-Cy $^{TM}$ 5.5 signal on human peripheral blood; surface staining, 1  $\mu g/ml$ .

