Category:	Cat. #	Product Name:
Monoclonal Antibodies	mab-SF-C053	Iso Control

Description:
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 µg/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 MOPC-21, generated against an undefined antigen, does not react specifically with rat and human samples, and hence all the background that could be observed when working with this antibody would be a result of general nonspecific interactions between an mouse IgG1 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.

Application:
Flow cytometry

Species Reactivity:
Mouse. Others not tested.

Presentation:
50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

Aliquoting Instructions:
Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good dilutent to use with most antibodies.

Specificity:
This mouse IgG1 kappa monoclonal antibody (clone MOPC-21) has unknown specificity and was chosen as an isotype control after screening on variety of resting, activated, live and fixed rat and human tissues.

Storage:
Store at 2~8°C for short term, freeze under -20°C for long term storage.

Size: 0.2 mg
Clone: MOPC-21
Isotype: IgG1
Host: Rat
Form: Purified
Concentration: 0.5 mg/ml
Units on Hand: YES

References:
1. Carlsten, M., et al., Cancer Res. 67(3): 1317-1325, 2007.
2. Smed-Sörensen, A., et al., Blood 111(10): 5037-5046, 2008.
3. Yates, J., et al., Int. Immunol. 19(6): 785-799, 2007.

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