



Mouse IgG2a Isotype Control

Catalog Number: MA1-10419

Product Data Sheet

Details		Species Reactivity	
Size	100 ug	Tested species reactivity	Not Applicable
Host / Isotype	Mouse / IgG2a	Tested Applications	Dilution *
Class	Control	Flow Cytometry (Flow)	Assay Dependent
Type	Isotype Control	Control (Ctrl)	Assay-Dependent
Clone	PPV-04	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Plum pox virus		
Form	Liquid		
Concentration	1mg/ml		
Purification	Protein A		
Storage Buffer	PBS, pH 7.4		
Contains	15mM sodium azide		
Storage Conditions	4° C, do not freeze		

Product Specific Information

MA1-10419 can be used as a negative control to measure the non-specific binding of Mouse IgG2a in human, porcine, mouse and rat tissues.

Background/Target Information

The isotype of a primary antibody and the application it is being used in can result in background staining. Primary antibody background noise can be caused by binding to Fc receptors on target cells; by non-specific interactions with cellular proteins, carbohydrates, and lipids; or by cell autofluorescence. Isotype control antibodies can act as negative controls to help differentiate non-specific background signal from specific antibody signal because they have no relevant specificity to a target antigen. While isotype controls are most commonly used in flow cytometry, they are useful in other applications such as chromatin immunoprecipitation (ChIP), immunohistochemistry, and gel shifts. Isotype controls should match with the primary antibody's species and isotype so that the level of specific staining by the primary antibody may be accurately determined. If using directly labeled primary antibodies, the isotype control works best if conjugated with the same label as the test antibody.

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