



# Armenian Hamster IgG Isotype Control

Catalog Number PA5-33220

Product Data Sheet

Details		Species Reactivity	
<b>Size</b>	500ug	<b>Tested species reactivity</b>	Not Applicable
<b>Host / Isotype</b>	Armenian Hamster / IgG	<b>Tested Applications</b>	<b>Dilution *</b>
<b>Class</b>	Control	<b>Control (Ctrl)</b>	Assay-Dependent
<b>Type</b>	Isotype Control	<b>Flow Cytometry (Flow)</b>	Assay Dependent
<b>Immunogen</b>	Trinitrophenol - KLH	<b>Immunofluorescence (IF)</b>	Assay Dependent
<b>Conjugate</b>	Unconjugated	<b>Immunohistochemistry (Frozen) (IHC (F))</b>	Assay Dependent
<b>Target Class</b>	IgG	* 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.	
<b>Form</b>	Liquid		
<b>Concentration</b>	1mg/ml		
<b>Purification</b>	Ion-exchange chromatography		
<b>Storage Buffer</b>	PBS		
<b>Contains</b>	no preservative		
<b>Storage Conditions</b>	-20° C, Avoid Freeze/Thaw Cycles		

## Product Specific Information

PA5-33220 is suitable for use as a negative control for the measurement of non-specific binding of Armenian hamster monoclonal antibodies, of isotype IgG, in human, mouse or rat tissues.

This product is a low-endotoxin, preservative-free formulation. Endotoxin level is <0.1 EU/ug.

For FACS analysis, use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

## 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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