



# Mouse IgG1 Isotype Control

Catalog Number MA5-14453

Product Data Sheet

Details		Species Reactivity	
Size	500 µL	Tested species reactivity	Not Applicable
Host / Isotype	Mouse / IgG1, kappa	Published Species Reactivity	Not Applicable
Class	Control	Tested Applications	Dilution *
Type	Isotype Control	Control (Ctrl)	Assay-Dependent
Clone	NCG01	ELISA (ELISA)	Assay Dependent
Conjugate	Unconjugated	Flow Cytometry (Flow)	Assay Dependent
Target Class	IgG1	Gel Shift (GS)	Assay Dependent
Form	Liquid	Immunofluorescence (IF)	Assay Dependent
Concentration	0.2mg/ml	Immunohistochemistry (Frozen) (IHC (F))	Assay Dependent
Purification	Protein G	Immunohistochemistry (Paraffin) (IHC (P))	Assay Dependent
Storage Buffer	PBS, pH 7.4, with 0.2% BSA	Immunoprecipitation (IP)	Assay Dependent
Contains	0.09% sodium azide	Western Blot (WB)	Assay Dependent
Storage Conditions	4° C	Published Applications	
		Immunocytochemistry (ICC)	See 1 publications below
		Neutralization (Neu)	See 1 publications below

\* 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.

## Product Specific Information

MA5-14453 reacts in ELISA, flow cytometry, gel shift, immunofluorescence, immunohistochemistry (paraffin and frozen), immunoprecipitation, and western blot analysis.

## 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 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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