

## Product datasheet

# Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control ab170190

[24 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control
<b>Specificity</b>	This Mouse IgG1 Isotype Control Antibody was raised in mouse against a yeast-specific protein making it unsuitable for yeast experiments.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ELISA, IHC-P, ICC/IF
<b>Immunogen</b>	Recombinant full length protein. ab170190 binds specifically to DNA-binding domain of the yeast GAL4 protein transcription activator.
<b>General notes</b>	<p>This antibody clone is manufactured by Abcam.</p> <p>Isotype controls are used to confirm that the primary antibody binding is specific and not a result of non-specific Fc receptor binding or other protein interactions. The isotype control antibody should match the primary antibody's host species, isotype, and possible conjugation. The control performed appropriately in all materials and platforms that were tested.</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p> <p>If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a> or you can find further information <a href="#">here</a>.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline

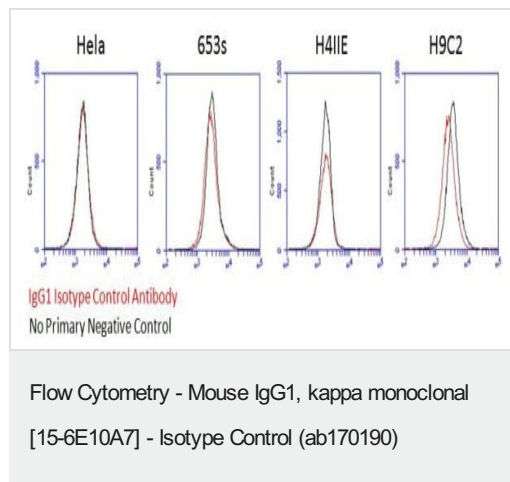
<b>Purity</b>	Ammonium Sulphate Precipitation
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	15-6E10A7
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab170190 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

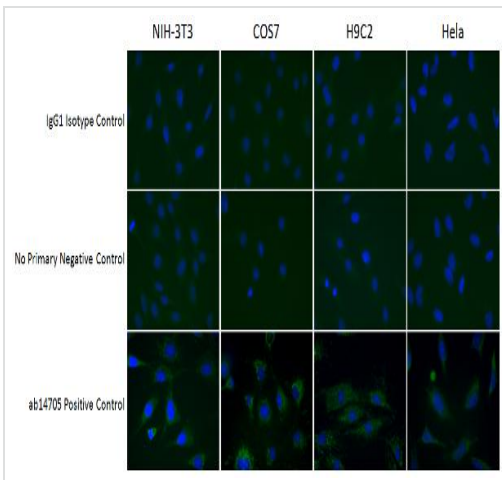
Application	Abreviews	Notes
Flow Cyt		Use a concentration of 1 µg/ml.
ELISA		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. PubMed: 26627833
ICC/IF		Use a concentration of 1 µg/ml.

## Images



Flow cytometry experiments with 4% PFA fixed HeLa (Human adenocarcinoma), 653s (mouse myeloma), H4IIE (rat hepatoma) and H9C2 (rat myoblast) were performed with the IgG1 Isotype Control Antibody (red) and no primary antibody negative control (black).

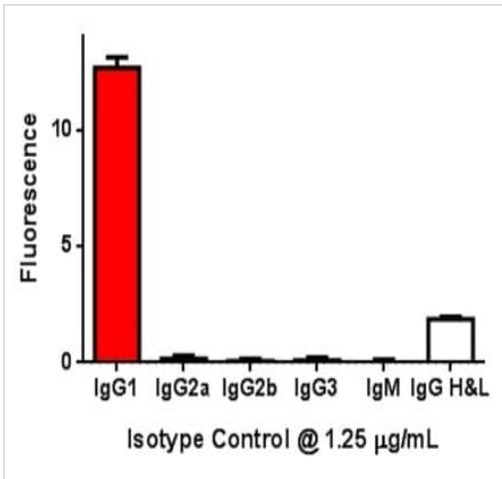
An Alexa Fluor® 488 conjugate with isotype specificity to the mouse antibody was used as a secondary antibody. The isotype control at 1 µg/mL shows no higher signal than the no primary negative control.



Immunocytochemistry/ Immunofluorescence -  
 Mouse IgG1, kappa monoclonal [15-6E10A7] -  
 Isotype Control (ab170190)

Immunocytochemistry (ICC) experiments with NIH-3T3 (mouse sarcoma), COS7 (monkey kidney fibroblast), H9C2 (rat myoblast) and HeLa (human adenocarcinoma) were performed with the IgG1 Isotype Control Antibody (top), no primary antibody negative control (middle), and **ab14705** as a positive control (bottom).

An Alexa Fluor® 488 conjugate with isotype specificity to the mouse antibody was used as a secondary antibody. The isotype control at 1 ug/mL shows no higher signal than the no primary negative control.



ELISA - Mouse IgG1, kappa monoclonal [15-  
 6E10A7] - Isotype Control (ab170190)

Fluorescence ELISA.

An isotyping ELISA was performed by coating a 96-well plate with 1.25 ug/mL of the IgG1 Isotype Control Antibody and detecting with Alexa Fluor conjugates specific to mouse IgG1, IgG2a, IgG2b, IgG3, IgM and heavy and light chains (H&L) of IgG. This experiment verifies that the primary antibody's isotype is correct and that it is successfully bound by the secondary antibody.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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