**Overview**

**Product name**
Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control

**Specificity**
This Mouse IgG1 Isotype Control Antibody was raised in mouse against a yeast-specific protein making it unsuitable for yeast experiments.

**Tested applications**
Suitable for: Flow Cyt, ICC, IHC-P

**Immunogen**
Other Immunogen Type. ab170190 binds specifically to DNA-binding domain of the yeast GAL4 protein transcription activator.

**General notes**
This antibody clone is manufactured by Abcam. 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.

Product was previously marketed under the MitoSciences sub-brand.

If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.

**Properties**

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C.

**Storage buffer**
Preservative: 0.02% Sodium azide
Constituent: HEPES buffered saline

**Purity**
Ammonium Sulphate Precipitation

**Clonality**
Monoclonal

**Clone number**
15-6E10A7

**Isotype**
IgG1

**Light chain type**
kappa

**Applications**
Flow Cytometry - Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (ab170190)

Flow cytometry experiments with 4% PFA fixed HeLa (Human adenocarcinoma), 653s (mouse myeloma), H4IE (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 ug/mL shows no higher signal than the no primary negative control.

Immunocytochemistry - 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.
Fluorescence ELISA.

An isotyping ELISA was performed by coating a 96-well plate with 1.25 µg/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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