Product datasheet

Mouse IgG2a, kappa monoclonal [18C8BC7AD10] - Isotype Control ab170191

Overview

Product name
Mouse IgG2a, kappa monoclonal [18C8BC7AD10] - Isotype Control

Specificity
This Mouse IgG2a 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

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.

This 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
18C8BC7AD10

Isotype
IgG2a

Light chain type
kappa

Applications

Our Abpromise guarantee covers the use of ab170191 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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<td>Flow Cyt</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
<tr>
<td>ICC</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
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Images

**Immunocytochemistry/Immunofluorescence** - (ab170191)

Immunocytochemistry (ICC) experiments with NIH-3T3 (mouse sarcoma), COS7 (monkey kidney fibroblast), H9C2 (rat myoblast) and Hela (human adenocarcinoma) were performed with the IgG2a 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.

**Flow Cytometry**

Flow cytometry experiments with 4% PFA fixed Hela (Human adenocarcinoma), 653s (mouse myeloma), H4IIe (rat hepatoma) and H9C2 (rat myoblast) were performed with the IgG2a 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.
Fluorescence ELISA.

An isotyping ELISA was performed by coating a 96-well plate with 1.25 ug/mL of the IgG2a 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.

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