abcam

ab170190

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

Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (ab170190) is a mouse monoclonal antibody used in **Flow Cytometry, IHC-P, ICC/IF, ELISA**.

- Over 30 publications

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituents: HEPES buffered saline
Form	Liquid
Clonality	Monoclonal
Clone number	15-6E10A7
Purification technique	Precipitation Ammonium Sulphate
Specificity	This Mouse IgG1 Isotype Control Antibody was raised in mouse against a yeast-specific protein making it unsuitable for yeast experiments.
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Application	IHC-P
Reactivity	Expected
Dilution info	-

Notes	-

Application	ELISA
Reactivity	Reacts
Dilution info	-
Notes	-

Application	ICC/IF
Reactivity	Reacts
Dilution info	1 µg/mL
Notes	-

Application	Flow Cyt
Reactivity	Reacts
Dilution info	1 µg/mL
Notes	-

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

What is this antibody validated in?
Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (ab170190) is a mouse monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF), ELISA. **Trusted by the scientific community**
Anti- Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (ab170190) was first used in a scientific publication in 2013 and has been cited over 30 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [15-6E10A7] also available for your convenience: ab170190, Alexa Fluor® 594 - ab178000, Carrier free - ab221848

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

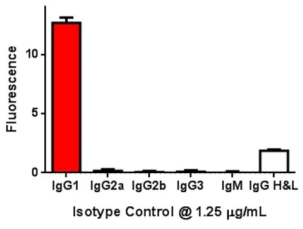
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

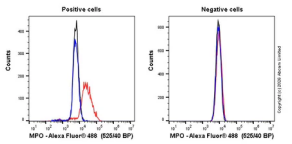
Full details and terms and conditions can be found here:
Terms & Conditions.

6 product images



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.



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

Flow Cytometry (Intracellular) staining using mouse Anti- antibody

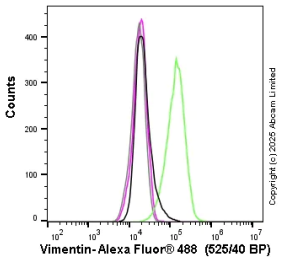
Flow cytometry overlay histogram showing left HL-60 positive cells and right negative HeLa stained with ab25989 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10µg/ml human IgG and 10% normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab25989) (1x 10^6 in 100µl at 0.04µg/ml (1/25000)) for 30min at 22°C.

The secondary antibody Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min at 22°C

Isotype control antibody (black line) was Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.

This antibody gave a positive signal in HL-60 Fixed with 80% methanol (5 min) / permeabilised with 0.1% PBS-Triton X-100 for 15 min under the same conditions.



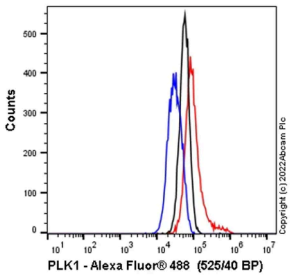
Flow Cytometry (Intracellular) - Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (ab170190)

Flow Cytometry (Intracellular) staining using mouse Anti- antibody

Flow cytometry overlay histogram showing wild-type HAP1 (green line) and VIM knockout HAP1 cells stained with ab8069 (magenta line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab8069) (1x10^6 in 100 µl at 0.04 µg/ml) for 30 min at 22°C.
The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor® 488, pre-adsorbed) (ab150117) was used at 1/4000 for 30 min at 22°C.

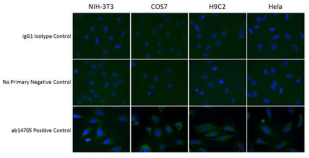
Isotype control antibody was mouse IgG1κ (ab170190) used at the same concentration and conditions as the primary antibody (wild-type HAP1 - black line, VIM knockout HAP1 - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.



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

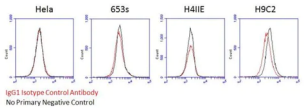
Flow Cytometry (Intracellular) staining of HeLa cells using mouse Anti- antibody



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

Immunocytochemistry/ Immunofluorescence staining using mouse Anti- antibody

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.



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

Flow Cytometry staining using mouse Anti- antibody

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 ug/mL shows no higher signal than the no primary negative control.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.