abcam

Product datasheet

Mouse IgG1, Kappa Monoclonal [B11/6] - Isotype Control ab91353

48 References 3 Images

Overview

Product name	Mouse IgG1, Kappa Monoclonal [B11/6] - Isotype Control
Tested applications	**Suitable for:** Flow Cyt, IHC-P, IHC-Fr
Immunogen	Chemical/ Small Molecule corresponding to Mouse. Synthetic hapten, which is normally not present in humans or animals.
General notes	ab91353 enables an estimation of non-specific binding of mouse monoclonal antibodies to cell surface components in peripheral blood and tissue. Suitable for whole blood, Ficoll-separated preparations, frozen and paraffin embedded sections 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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: 1% BSA
Purity	Protein G purified
Purification notes	ab91353 is purified and passed through a 0.22µm filter
Isotype control notes	ab91353 enables an estimation of non-specific binding of mouse monoclonal antibodies to cell surface components in peripheral blood and tissue. Suitable for whole blood, Ficoll-separated preparations, frozen and paraffin embedded sections
Clonality	Monoclonal
Clone number	B11/6

Isotype	IgG1
Light chain type	kappa

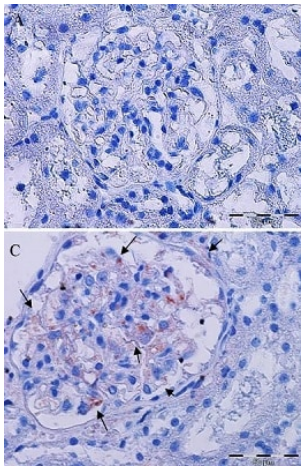
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab91353 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 2µg for 10^6 cells. ab91353 is a **negative isotype** control
IHC-P		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

Images



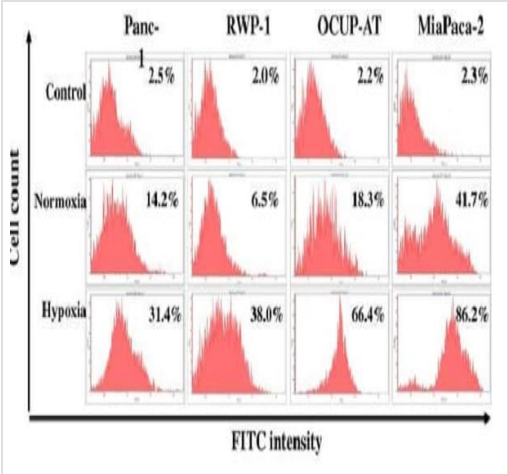
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Mouse IgG1, Kappa Monoclonal [B11/6] - Isotype Control (ab91353)

Glomerular nestin expression in experimental groups.

(A) Negative control (×200).

(C) SHADR group: Diffuse glomerular nestin expression was detected involving almost all podocytes within glomerulus. After losartan and tempol treatment, either single or in combination, kidneys restored nestin expression similar to controls (SHC group).

Immunostaining was applied on 5 µm thick paraffin sections. After deparaffinization and rehydration, the sections were treated by microwave for 20 minutes at 400 W in citrate buffer (pH 6.0). After antigen retrieval, samples were incubated for 1 hour at room temperature with primary antibody for nestin (dilution 1:100). Sections were then treated using 3-amino-9-ethylcarbazole (AEC) as substrate, and counterstained with hematoxylin. Negative controls were performed by omitting the first antibody and mouse monoclonal antibodies as isotype control mouse IgG1 (ab91353) antibody was also used.



Flow Cytometry - Mouse IgG1, Kappa Monoclonal [B11/6] - Isotype Control (ab91353)

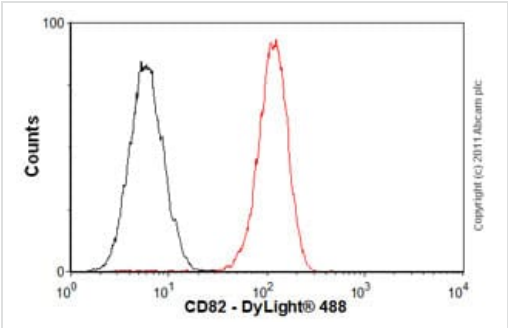
Hirakawa et al PLoS One. 2016 Aug 3;11(8):e0159912. doi: 10.1371/journal.pone.0159912. eCollection 2016. Fig 1. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Effects of hypoxia on mRNA expression of *IGF1R* and *IGF1*, and production of IGF1 in cancer cells.

Cell surface expression of IGF1R by FACScan analysis. IGF1R expression level of Panc-1, RWP-1, OCUP-AT, and MiaPaCa-2 cells was higher in hypoxia than that in normoxia.

Cells (2 x 10^6 cells/mL) were fixed with 2% paraformaldehyde and incubated in PBS with anti IGF1R antibody (**ab16890**, Abcam) or mouse IgG1- isotype control (ab91353, Abcam) for 30 minutes at 22°C. Cells were subsequently labeled with FITC-conjugated secondary antibody (1:500; **ab96879**, Abcam) for 30 minutes at 22°C.

The percentage of positive cells were calculated and compared with isotype-matched control-stained cells.



Flow Cytometry - Mouse IgG1, Kappa Monoclonal [B11/6] - Isotype Control (ab91353)

Overlay histogram showing HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained with **ab59509** (red line).

The cells were fixed with 80% methanol (5 minutes) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab59509**, 1 µg/1x10^6 cells) for 30 minutes at 22ºC. The secondary antibody used was a goat anti-mouse DyLight® 488 (IgG, H+L) (**ab96879**) at 1/500 dilution for 30 minutes at 22ºC.

Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2 µg/1x10^6 cells) used under the same conditions.

Acquisition of >5,000 events was performed.

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