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Product Data Sheet

Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (FC)

Catalog # / Size: 400130 / 100 tests

Clone: MOPC-21

Isotype: Mouse (BALB/c) IgG1, κ

Preparation: The immunoglobulin was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The IgG1,κ isotype control solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**

Applications:

Applications: FC - *Quality tested*
IF - *Reported in the literature*

Recommended Usage: Each lot of this mouse IgG1, κ isotype control antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, use the isotype control at the same concentration as your primary antibody. Use our Concentration Lookup tool to find the exact concentrations of your lots of product.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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Application Notes: The MOPC-21 immunoglobulin is useful as an isotype-matched control (for the relevant formats) for Western blotting, immunoprecipitation, immunohistochemistry, functional assay, immunofluorescence microscopy, immunocytochemistry and immunofluorescent staining (surface or intracellular) for flow cytometric analysis. The LEAF ™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 400124) as negative control. For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 400166) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

Application References:

1. Carlsten M, *et al.* 2007. *Cancer Res.* 67:1317. PubMed
2. Smed-Sörensen A, *et al.* 2008. *Blood* 111:5037. PubMed (FA)
3. Bunesmann MM, *et al.* 2011. *Am. J. Respir. Cell. Mol. Biol.* Epub. PubMed
4. Matsuyama T, *et al.* 2005. *Infect. Immun.* 73:1044. (IF)
5. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) PubMed
6. Li C, *et al.* 2014. *Cell Signal.* 26:1369. PubMed

Description: The MOPC-21 immunoglobulin has unknown specificity. The isotype of this antibody is mouse IgG1, κ. This antibody was chosen as an isotype control after screening on a variety of resting, activated, live, and fixed mouse, rat and human tissues.

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