

Datasheet for ABIN810078

## Mouse IgG1 isotype control (Biotin)

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### Overview

|              |  |
|--------------|--|
| Quantity:    | 0.1 mg   |
| Target:      | IgG1   |
| Host:        | Mouse  |
| Clonality:   | Monoclonal   |
| Conjugate:   | Biotin   |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Negative Control (NC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|                      |  |
|----------------------|--|
| Clone:               | MOPC-21  |
| Isotype:             | IgG1   |
| Specificity:         | This mouse IgG1 kappa monoclonal antibody (clone MOPC-21) has unknown specificity and was chosen as an isotype control after screening on variety of resting, activated, live and fixed rat and human tissues. |
| No Cross-Reactivity: | Human, Rat (Rattus)  |

### Target Details

|              |                               |
|--------------|-------------------------------|
| Target:      | IgG1                          |
| Abstract:    | <a href="#">IgG1 Products</a> |
| Target Type: | Antibody                      |

## Target Details

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**Background:** The specificity of staining by monoclonal antibodies to target antigens should be verified by establishing the amount of non-specific antibody binding. Especially at higher concentration (more than 15 µg/mL) the antibody staining usually has considerable background. To this end a non-reactive immunoglobulin of the same isotype is included as a negative control for each specific monoclonal antibody used in a particular immunoassay. The monoclonal antibody MOPC-21, generated against an undefined antigen, does not react specifically with rat and human samples, and hence all the background that could be observed when working with this antibody would be a result of general nonspecific interactions between a mouse IgG1 Molecule and the respective sample under the particular conditions. This shall help the customer to set up the experimental conditions so that the nonspecific binding of any antibody is abolished.

**Gene ID:** 3690

## Application Details

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**Application Notes:** The reagent is intended as isotype control for flow cytometry analysis to establish the amount of non-specific antibody binding. For your particular experiment, use the same concentration of this isotype control antibody as the recommended working concentration of the antigen-specific antibody. Also, when working with prediluted antibodies, dilute the isotype control to the same concentration as is the concentration of the antigen-specific antibody in the prediluted antibody solution you are using. If under particular experimental conditions the background signal of the isotype control is too high (usually when working concentrations of used antibodies are above 10 µg per ml of incubation mixture), change the conditions of your experiment to reduce the background.

**Comment:** The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

**Restrictions:** For Research Use only

## Handling

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**Concentration:** 1 mg/mL

**Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

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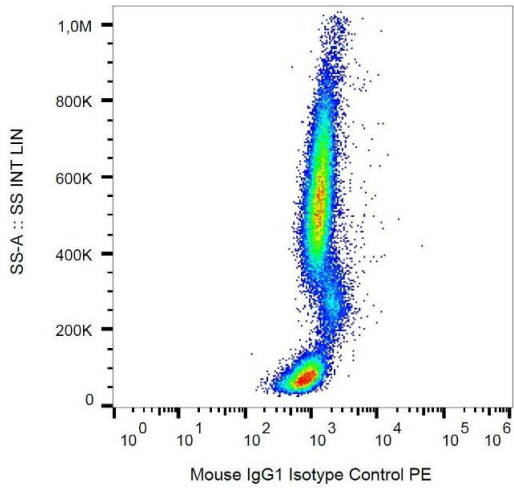
|                  |  |
|------------------|--|
| Handling Advice: | <b>Do not freeze.</b><br>Avoid prolonged exposure to light.                            |
| Storage:         | 4 °C   |
| Storage Comment: | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label. |

## Publications

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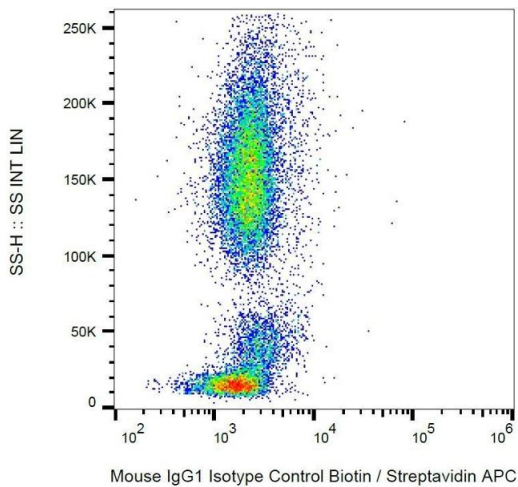
- Product cited in:
- Smed-Sörensen, Moll, Cheng, Loré, Norlin, Perbeck, Moody, Spetz, Sandberg: "IgG regulates the CD1 expression profile and lipid antigen-presenting function in human dendritic cells via FcγRIIIa." in: **Blood**, Vol. 111, Issue 10, pp. 5037-46, (2008) ([PubMed](#)).
- Rebetz, Tian, Persson, Widegren, Salford, Englund, Gisselsson, Fan: "Glial progenitor-like phenotype in low-grade glioma and enhanced CD133-expression and neuronal lineage differentiation potential in high-grade glioma." in: **PLoS ONE**, Vol. 3, Issue 4, pp. e1936, (2008) ([PubMed](#)).
- Carlsten, Björkström, Norell, Bryceson, van Hall, Baumann, Hanson, Schedvins, Kiessling, Ljunggren, Malmberg: "DNAX accessory molecule-1 mediated recognition of freshly isolated ovarian carcinoma by resting natural killer cells." in: **Cancer research**, Vol. 67, Issue 3, pp. 1317-25, (2007) ([PubMed](#)).
- Yates, Rovis, Mitchell, Afzali, Tsang, Garin, Lechler, Lombardi, Garden: "The maintenance of human CD4+ CD25+ regulatory T cell function: IL-2, IL-4, IL-7 and IL-15 preserve optimal suppressive potency in vitro." in: **International immunology**, Vol. 19, Issue 6, pp. 785-99, (2007) ([PubMed](#)).
- Bryceson, March, Barber, Ljunggren, Long: "Cytolytic granule polarization and degranulation controlled by different receptors in resting NK cells." in: **The Journal of experimental medicine**, Vol. 202, Issue 7, pp. 1001-12, (2005) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



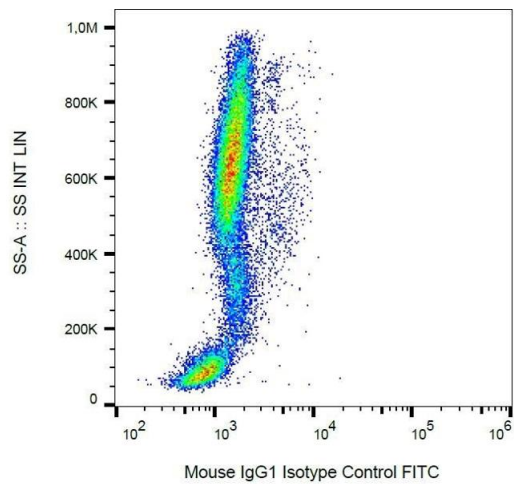
### Flow Cytometry

**Image 1.** Example of nonspecific mouse IgG1 (MOPC-21) biotin signal on human peripheral blood; surface staining, 6 µg/ml.



### Flow Cytometry

**Image 2.** Example of nonspecific mouse IgG1 (MOPC-21) biotin signal on human peripheral blood; surface staining, 6 µg/ml.



### Flow Cytometry

**Image 3.** Example of nonspecific mouse IgG1 (MOPC-21) biotin signal on human peripheral blood; surface staining, 6 µg/ml.