



Datasheet for ABIN2749038

Mouse IgG2a Isotype Control



[Go to Product page](#)

1 Image

3 Publications

Overview

Quantity:	0.1 mg
Target:	IgG2a
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Negative Control (NC), DNA Microscopy (DNA Mic)

Product Details

Immunogen:	The transplantable plasmacytoma MOPC-173 was induced by intraperitoneal injection of mineral oils into BALB/c mice.
Clone:	MOPC-173
Isotype:	IgG2a
Specificity:	This mouse IgG2a monoclonal antibody (clone MOPC-173) reacts with an unknown epitope. It does not react with a variety of resting, activated, live, and fixed mouse, rat and human tissues.
No Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Purified by protein-A affinity chromatography
Purity:	> 95 % (by SDS-PAGE)
Sterility:	0.2 µm filtered
Endotoxin Level:	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

Target Details

Target:	IgG2a
Abstract:	IgG2a Products
Target Type:	Antibody
Background:	<p>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 consignable 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-173, generated against an undefined antigen, does not react specifically with mouse, 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 an mouse IgG2a 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.</p>

Application Details

Application Notes:	<p>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.</p>
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Restrictions:	For Research Use only
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Handling

Buffer:	Azide free phosphate buffered saline (PBS), approx. pH 7.4, 0.2 µm filter sterilized.
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.

Publications

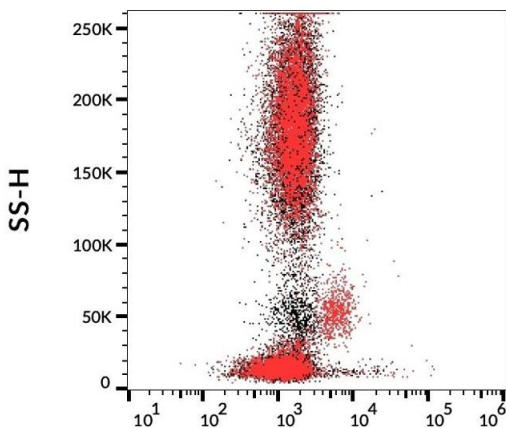
Product cited in:

Kuttruff, Koch, Kelp, Pawelec, Rammensee, Steinle: "NKp80 defines and stimulates a reactive subset of CD8 T cells." in: **Blood**, Vol. 113, Issue 2, pp. 358-69, (2009) ([PubMed](#)).

Ortonne, Huet, Gaudez, Marie-Cardine, Schiavon, Bagot, Musette, Bensussan: "Significance of circulating T-cell clones in Sezary syndrome." in: **Blood**, Vol. 107, Issue 10, pp. 4030-8, (2006) ([PubMed](#)).

Huet, Bagot, Loyaux, Capdevielle, Conraux, Ferrara, Bensussan, Marie-Cardine: "SC5 mAb represents a unique tool for the detection of extracellular vimentin as a specific marker of Sezary cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 1, pp. 652-9, (2005) ([PubMed](#)).

Images



Mouse IgG2a Isotype Control Purified GAM/APC

Flow Cytometry

Image 1. Example of nonspecific mouse IgG2a (MOPC-173) purified antibody (low endotoxin) / GAM-APC signal (red) on human peripheral blood compared with blank (black).