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Datasheet for ABIN2749038

Mouse IgG2a Isotype Control

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Overview

Quantity:	0.1 mg
Target:	IgG2a
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), ELISA, Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Functional Studies (Func), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

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 kappa
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, Rat
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/ μ g of the protein, as determined by the LAL test.

Target Details

Target: IgG2a

Abstract: [IgG2a Products](#)

Target Type: Antibody

Application Details

Application Notes: Negative control: The reagent is intended as an isotype control to establish the amount of non-specific antibody binding. For your particular experiment, use the same concentration of this 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/mL of incubation mixture), change the conditions of your experiment to reduce the background.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4

Preservative: Azide free

Storage: 4 °C

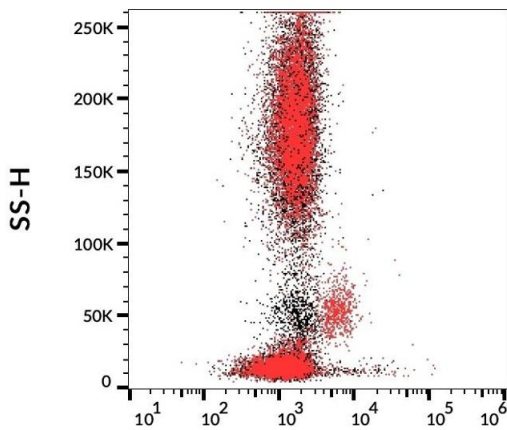
Storage Comment: Store at 2-8°C. Do not freeze.

Publications

Product cited in: Gupta, Gylling, Alonso, Sugimori, Ianakiev, Xiong, Arnaout: "The beta-tail domain (betaTD) regulates physiologic ligand binding to integrin CD11b/CD18." in: **Blood**, Vol. 109, Issue 8, pp. 3513-20, (2007) ([PubMed](#)).

Fougereau, Bourgois, de Preval, Rocca-Serra, Schiff: "The complete sequence of the murine monoclonal immunoglobulin MOPC 173 (IgG2a): genetic implications." in: **Annales d'immunologie**, Vol. 127, Issue 5, pp. 607-31, (1977) ([PubMed](#)).

Baumal, Scharff: "Immunoglobulin biosynthesis by the MOPC 173 mouse myeloma tumor and a variant spleen clone." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 116, Issue 1, pp. 65-74, (1976) ([PubMed](#)).



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).