Antibodies

Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, Alexa Fluor® 488

Mouse monoclonal IgG1, kappa isotype control antibody, Alexa Fluor® 488-conjugated

Catalog	#60070AD	100 Tests	5 µL/test
	#60070AD.1	25 Tests	5 µL/test

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Product Description

The MOPC-21 antibody (IgG1, kappa) is suitable for use as an isotype-matched control antibody in several applications to estimate the degree of non-specific binding by an antigen-specific antibody. Ideally, the isotype control should have the same subclass of heavy chain (IgA, IgD, IgE, IgG, or IgM) and light chain (kappa or lambda) as the specific antibody being employed. If a conjugated antibody is employed, an isotype control conjugated to the same molecule (e.g. fluorochrome) should be chosen. The use of an appropriate isotype control helps confirm the specificity of the antigen-specific antibody, and indicates non-specific binding that may result from binding to Fc receptors or other cell components. The MOPC-21 antibody is produced by a mineral oil-induced plasmacytoma cell line and has unknown binding specificity, having been screened on a variety of activated, resting, live, and fixed tissues from several species, including mouse, rat, human, and non-human primates.

Target Antigen Name:	IgG1 Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	MOPC-21
Isotype:	IgG1, kappa
Immunogen:	Mineral oil
Conjugate:	Alexa Fluor® 488

Applications

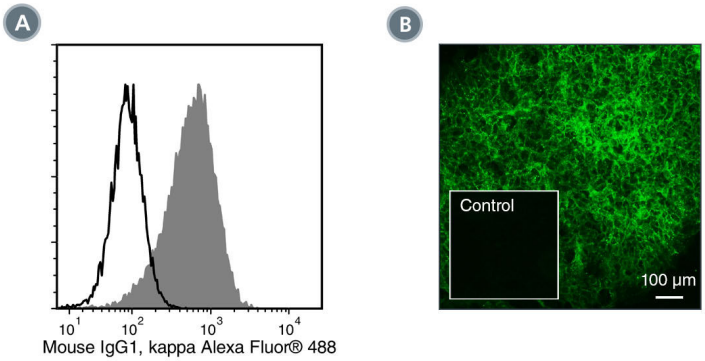
Verified:	FC, ICC, IF
Reported:	FC, ICC, IF
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry and immunofluorescence microscopy applications (surface and intracellular staining).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	The suggested use of this antibody is at concentrations comparable to those of the specific antibody of interest.

Data



(A) Flow cytometry analysis of dendritic cells derived from human peripheral blood mononuclear cells (PBMCs). Cells were processed with EasySep™ Human CD14 Positive Selection Kit (Catalog #18058) and labeled with Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, Alexa Fluor® 488 (solid line histogram), or a mouse IgG1, kappa positive control antibody (Anti-Human CD83 Antibody, Clone HB15e, Alexa Fluor® 488; Catalog #60107AD) (filled histogram).
(B) Human induced pluripotent stem (iPS) cells were cultured using mTeSR™1 (Catalog #05850) on Corning® Matrigel®-coated glass slides, then fixed and labeled with Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, Alexa Fluor® 488 (inset), or with a positive control antibody of the same isotype (Anti-Human SSEA-5 Antibody, Clone 8e11, Alexa Fluor® 488; Catalog #60063AD) (green).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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