

Antibodies

Mouse IgG2a, kappa Isotype Control Antibody, Clone MOPC-173

Mouse monoclonal IgG2a, kappa
isotype control antibody,
unconjugated

Catalog #60071
#60071.1

500 µg 0.5 mg/mL
50 µg 0.5 mg/mL



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Product Description

The MOPC-173 antibody (IgG2a, 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-173 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:	IgG2a Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	MOPC-173
Isotype:	IgG2a, kappa
Immunogen:	Mineral oil
Conjugate:	Unconjugated

Applications

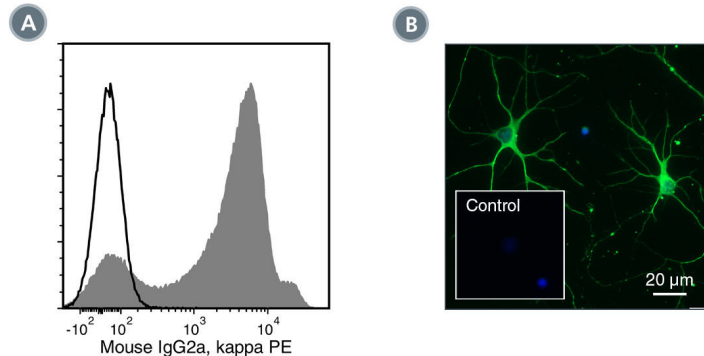
Verified:	FC, ICC, IF
Reported:	ChIP, FA, FC, ICC, IF, IHC, IP, WB
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry and immunofluorescence microscopy applications (surface and intracellular 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
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. 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 human peripheral blood mononuclear cells (PBMCs) labeled with Mouse IgG2a, kappa Isotype Control Antibody, Clone MOPC-173, followed by a rat anti-mouse IgG2a antibody, PE (solid line histogram). Filled histogram shows labeling with a mouse IgG2a, kappa positive control antibody (Anti-Human CD45RO Antibody, Clone UCHL1; Catalog #60097), followed by a rat anti-mouse IgG2a antibody, PE.

(B) E18 cortical rat neurons were cultured using the NeuroCult™ SM1 Neuronal Culture Kit (Catalog #05712) on poly-lysine-coated glass coverslips, then fixed and labeled with Mouse IgG2a, kappa Isotype Control Antibody, Clone MOPC-173, followed by donkey anti-mouse IgG, Alexa Fluor® 488 and DAPI counterstaining (Inset), or with a positive control antibody of the same isotype, Anti-Human Beta-Tubulin III Antibody, Clone AA10 (Catalog #60100), followed by donkey anti-mouse IgG, Alexa Fluor® 488 (green) and DAPI counterstaining (blue).

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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