Antibodies

Mouse IgG3, kappa Isotype Control Antibody, Clone MG3-35, PE

Mouse monoclonal IgG3, kappa isotype control antibody, PE-conjugated

Catalog	#60073PE	100 µg	0.2 mg/mL
	#60073PE.1	25 µg	0.2 mg/mL

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Product Description

The MG3-35 antibody (IgG3, 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 used. If a conjugated antibody is used, 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 MG3-35 antibody recognizes keyhole limpet hemocyanin (KLH) 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:	IgG3 Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	MG3-35
Isotype:	IgG3, kappa
Immunogen:	Trinitrophenol + KLH
Conjugate:	PE (Phycoerythrin)

Applications

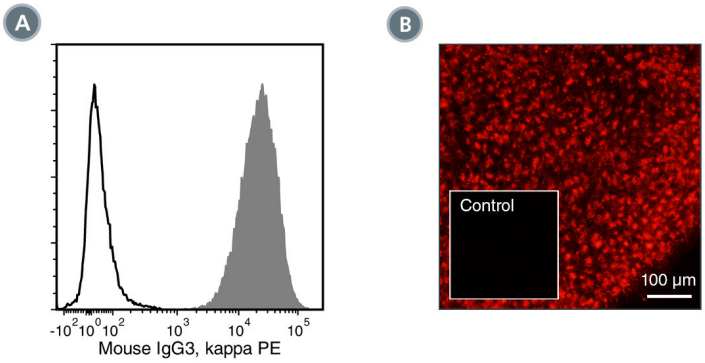
Verified:	FC, ICC, IF
Reported:	FC
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry and immunofluorescence microscopy applications (surface and intracellular staining).

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 and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
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 human induced pluripotent stem cells labeled with Mouse IgG3, kappa Isotype Control Antibody, Clone MG3-35, PE (solid line histogram), or a mouse IgG3, kappa positive control antibody (Anti-Human SSEA-4 Antibody, Clone MC-813-70, PE; Catalog #60062PE) (filled histogram).
(B) Human embryonic stem cells were cultured in mTeSR™1 (Catalog #85850) on Corning® Matrigel®-coated glass slides, then fixed and labeled with Anti-Human SSEA-4 Antibody, Clone MC-813-70, PE. Inset shows cells labeled with Mouse IgG3, kappa Isotype Control Antibody, Clone MG3-35.

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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5. Ribot JC et al. (2012) B7-CD28 costimulatory signals control the survival and proliferation of murine and human gamma delta T cells via IL-2 production. J Immunol 189(3): 1202–8. (FC)
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7. Duan J et al. (2008) Microbial carbohydrate depolymerization by antigen-presenting cells: deamination prior to presentation by the MHC class II pathway. Proc Natl Acad Sci USA 105(13): 5183–8. (FA)