

Antibodies

Mouse IgG2a, kappa Isotype Control Antibody, Clone C1.18.4

Mouse monoclonal IgG2a, kappa
isotype control antibody,
unconjugated



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #60108

100 µg 0.5 mg/mL

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

The C1.18.4 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 C1.18.4 antibody has unknown specificity and is secreted by a cell line derived from the X-5563 myeloma cell line, which arose spontaneously in a female C3H mouse.

Target Antigen Name:	IgG2a Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (C3H, also denoted C3H/He, C3H/Bi)
Clonality:	Monoclonal
Clone:	C1.18.4
Isotype:	IgG2a, kappa
Immunogen:	Not applicable
Conjugate:	Unconjugated

Applications

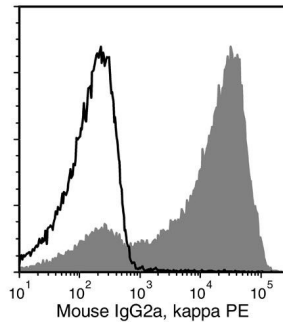
Verified:	FC
Reported:	FA, FC, IHC, WB
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry applications.

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; 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



Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Mouse IgG2a, kappa Isotype Control Antibody, Clone C1.18.4, 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.

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

1. Bulliard Y et al. (2013) Activating Fc γ receptors contribute to the antitumor activities of immunoregulatory receptor-targeting antibodies. *J Exp Med* 210(9): 1685–93. (WB)
2. Fukami N et al. (2012) Mechanism of accommodation in a sensitized human leukocyte antigen transgenic murine cardiac transplant model. *Transplantation* 93(4): 364–72. (FA)
3. Haynes L et al. (2012) Immunity to the conserved influenza nucleoprotein reduces susceptibility to secondary bacterial infections. *J Immunol* 189(10): 4921–29. (FA)
4. Van der Touw W et al. (2012) NK cells are required for costimulatory blockade induced tolerance to vascularized allografts. *Transplant J* 94(6): 575–84. (FA)
5. Tang AL et al. (2008) CTLA4 expression is an indicator and regulator of steady-state CD4⁺ FoxP3⁺ T cell homeostasis. *J Immunol* 181(3): 1806–13. (FA, FC)
6. Kurlander RJ et al. (1987) The effects of an anti-I-Ab antibody on murine host resistance to *Listeria monocytogenes*. *J Immunol* 138(8): 2679–86. (FA)
7. Horibata K et al. (1970) Mouse myelomas and lymphomas in culture. *Exp Cell Res* 60(1): 61–77.

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485 MEDICAL DEVICE STANDARDS.

Copyright © 2015 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, Scientists Helping Scientists, and EasySep are trademarks of STEMCELL Technologies Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.