

## Antibodies

### Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, FITC

Rat monoclonal IgG2a, kappa isotype  
control antibody, FITC-conjugated

Catalog #60076FI  
#60076FI.1

200 µg 0.5 mg/mL  
50 µg 0.5 mg/mL



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

## Product Description

The RTK2758 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 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 RTK2758 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:	IgG2a Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Rat
Clonality:	Monoclonal
Clone:	RTK2758
Isotype:	IgG2a, kappa
Immunogen:	Trinitrophenol + KLH
Conjugate:	FITC (Fluorescein isothiocyanate)

## Applications

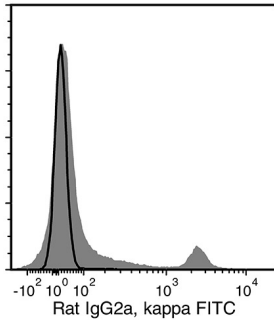
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry applications.

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 FITC under optimal conditions. The solution is free of unconjugated FITC.
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



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, FITC (solid line histogram). Filled histogram shows labeling with a rat IgG2a, kappa positive control antibody (Anti-Mouse CD8a Antibody, Clone 53-6.7, FITC; Catalog #60023FI).

## 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](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

1. Hatano R et al. (2015) CD26-mediated induction of EGR2 and IL-10 as potential regulatory mechanism for CD26 costimulatory pathway. *J Immunol* 194(3): 960–72. (FC)
2. Lu F-T et al. (2015) Thymic B cells promote thymus-derived regulatory T cell development and proliferation. *J Autoimmun* 61: 62–72. (FA)
3. Iio A et al. (2014) Preferential gene transcription of T helper 2 cytokines in peripheral CCR4+CD4+ lymphocytes in dogs. *Vet Dermatol* 25(3): 199–203, e50. (FACS)
4. Lee JH et al. (2013) The synergistic immunoregulatory effects of culture-expanded mesenchymal stromal cells and CD4+CD25+Foxp3+ regulatory T cells on skin allograft rejection. *PLoS One* 8(8): e70968. (FC)
5. Prater M et al. (2013) Enzymatic dissociation, flow cytometric analysis, and culture of normal mouse mammary tissue. *Methods Mol Biol* 946: 395–409. (FC)
6. Eskin MA et al. (2012) The leukocyte integrin antagonist Del-1 inhibits IL-17-mediated inflammatory bone loss. *Nat Immunol* 13(5): 465–73. (FA)
7. Piro D et al. (2012) Hematopoietic stem/progenitor cells express functional mitochondrial energy-dependent cystic fibrosis transmembrane conductance regulator. *Stem Cells Dev* 21(4): 634–46. (FC)
8. Verjan Garcia N et al. (2011) SIRPalpha/CD172a regulates eosinophil homeostasis. *J Immunol* 187(5): 2268–77. (FC)
9. Hegde S et al. (2007) NKT cells direct monocytes into a DC differentiation pathway. *J Leukoc Biol* 81(5): 1224–35. (FC)
10. Nishimoto H et al. (2005) Costimulation of mast cells by 4-1BB, a member of the tumor necrosis factor receptor superfamily, with the high-affinity IgE receptor. *Blood* 106(13): 4241–8. (FC)

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485. PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2017 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Canada Inc. All other trademarks are the property of their respective holders. Alexa Fluor® is a registered trademark of Life Technologies Corporation. Antibodies conjugated to Alexa Fluor® are licensed for internal research use only and sale is expressly conditioned on the buyer not using the antibody for manufacturing, performing a service or medical test, or otherwise generating revenue. For use other than research, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or [outlicensing@lifetech.com](mailto:outlicensing@lifetech.com). 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.