

Antibodies

Catalog #60076AD

Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, Alexa Fluor® 488

Rat monoclonal IgG2a, kappa isotype
control antibody, Alexa Fluor® 488-
conjugated

100 µg 0.5 mg/mL



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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 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 RTK2758 antibody recognises keyhole limpet hemocyanin 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:	Alexa Fluor® 488

Applications

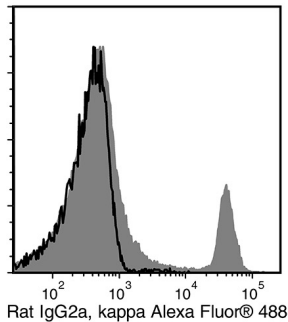
Verified:	FC
Reported:	FC
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry applications.

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; 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 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



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, Alexa Fluor® 488 (solid line histogram). Filled histogram shows labeling with a rat IgG2a, kappa positive control antibody (Anti-Mouse CD8a Antibody, Clone 53-6.7, Alexa Fluor® 488; Catalog #60023AD).

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. 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)

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