Rat IgG2b, kappa Isotype Control Antibody, Clone RTK4530, Biotin

Antibodies

Rat monoclonal IgG2b, kappa isotype control antibody, biotin-conjugated

Catalog #60077BT #60077BT.1 200 μg 0.5 mg/mL 50 μg 0.5 mg/mL



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Product Description

The RTK4530 antibody (IgG2b, 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 RTK4530 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: IgG2b Isotype Control

Alternative Names: Not applicable

Gene ID: Not applicable

Species Reactivity: Not applicable

Host Species: Rat

Clonality: Monoclonal
Clone: RTK4530
Isotype: IgG2b, kappa

Immunogen: Trinitrophenol + KLH

Conjugate: Biotin

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 biotin under optimal conditions.

The solution is free of unconjugated biotin.

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

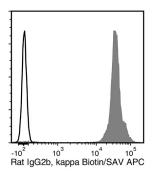
interest.

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Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Rat IgG2b, kappa Isotype Control Antibody, Clone RTK4530, Biotin followed by streptavidin (SAV) APC (solid line histogram). Filled histogram shows labeling with a rat IgG2b, kappa positive control antibody (Anti-Mouse CD45 Antibody, Clone 30-F11, Biotin; Catalog #60030BT) followed by SAV APC.

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. Lei G-S et al. (2015) Myeloid-derived suppressor cells impair alveolar macrophages through PD-1 receptor ligation during Pneumocystis pneumonia. Infect Immun 83(2): 572–82. (FA)
- 2. Reynolds AE et al. (2015) Natural IgM is produced by CD5- plasma cells that occupy a distinct survival niche in bone marrow. J Immunol 194(1): 231–42. (FC)
- 3. Richards J et al. (2015) Interleukin-19 increases angiogenesis in ischemic hind limbs by direct effects on both endothelial cells and macrophage polarization. J Mol Cell Cardiol 79: 21–31. (IHC)
- 4. Koyama M et al. (2013) Promoting regulation via the inhibition of DNAM-1 after transplantation. Blood 121(17): 3511-20. (FACS)
- 5. Tanaka Y et al. (2012) Stimulation of Ly-6G on neutrophils in LPS-primed mice induces platelet-activating factor (PAF)-mediated anaphylaxis-like shock. J Leukoc Biol 91(3): 485–94. (FA)
- 6. Hart R & Greaves DR. (2010) Chemerin contributes to inflammation by promoting macrophage adhesion to VCAM-1 and fibronectin through clustering of VLA-4 and VLA-5. J Immunol 185(6): 3728–39. (FA)
- 7. Schaefer JS et al. (2010) ICOS promotes IL-17 synthesis in colonic intraepithelial lymphocytes in IL-10-/- mice. J Leukoc Biol 87(2): 301-8. (FA)
- 8. Kuns RD et al. (2009) Invariant natural killer T cell-natural killer cell interactions dictate transplantation outcome after alpha-galactosylceramide administration. Blood 113(23): 5999–6010. (FACS)
- 9. Yi H et al. (2009) Pattern recognition scavenger receptor SRA/CD204 down-regulates Toll-like receptor 4 signaling-dependent CD8 T-cell activation. Blood 113(23): 5819–28. (FC)
- 10. Duan J et al. (2008) Microbial carbohydrate depolymerization by antigen-presenting cells: deamination prior to presentation by the MHC II pathway. Proc Natl Acad Sci U S A 105(13): 5183–8. (FA)
- 11. Sasaki K et al. (2008) Stat6 signaling suppresses VLA-4 expression by CD8+ T cells and limits their ability to infiltrate tumor lesions in vivo. J Immunol 181(1): 104–8. (FA)
- 12. Sasaki K et al. (2007) Preferential expression of very late antigen-4 on type 1 CTL cells plays a critical role in trafficking into central nervous system tumors. Cancer Res 67(13): 6451–8. (FA)

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