#### Rat IgG1, kappa Isotype Control Antibody, Clone RTK2071

## **Antibodies**

Rat monoclonal IgG1, kappa isotype control antibody, unconjugated

0.5 mg/mL

Catalog #60075 500 μg #60075.1 50 μg

500 μg 0.5 mg/mL



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## **Product Description**

The RTK2071 antibody (IgG1, 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 RTK2071 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: IgG1 Isotype Control

Alternative Names: Not applicable

Gene ID: Not applicable

Species Reactivity: Not applicable

Host Species: Rat

Clonality: Monoclonal
Clone: RTK2071
Isotype: IgG1, kappa

Immunogen: Trinitrophenol + KLH

Conjugate: Unconjugated

## **Applications**

Verified: FC

Reported: FA, FC, ICC, IF, IHC, IP, 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; 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.

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

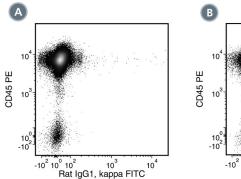
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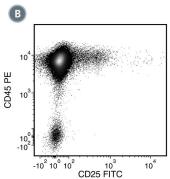
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### **Antibodies**



### Data





(A) Flow cytometry analysis of C57BL/6 mouse splenocytes (gated on lymphocytes) labeled with Rat IgG1, kappa Isotype Control Antibody, Clone RTK2071, followed by a mouse anti-rat IgG1 antibody, FITC and Anti-Mouse CD45 Antibody, Clone 30-F11, PE (Catalog #60030PE).

(B) Flow cytometry analysis of C57BL/6 mouse splenocytes (gated on lymphocytes) labeled with Anti-Mouse CD25 Antibody, Clone PC61.5 (Catalog #60009), followed by a mouse anti-rat IgG1 antibody, FITC and Anti-Mouse CD45 Antibody, Clone 30-F11, 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

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