Antibodies

Rat IgM, kappa Isotype Control Antibody, Clone RTK2118, Biotin

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

Catalog	#60074BT	200 µg	0.5 mg/mL
	#60074BT.1	50 µg	0.5 mg/mL

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Scientists Helping Scientists™ | WWW.STEMCELL.COM
TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713
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Product Description

The RTK2118 antibody (IgM, 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 RTK2118 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:	IgM Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Rat
Clonality:	Monoclonal
Clone:	RTK2118
Isotype:	IgM, kappa
Immunogen:	Trinitrophenol + KLH
Conjugate:	Biotin

Applications

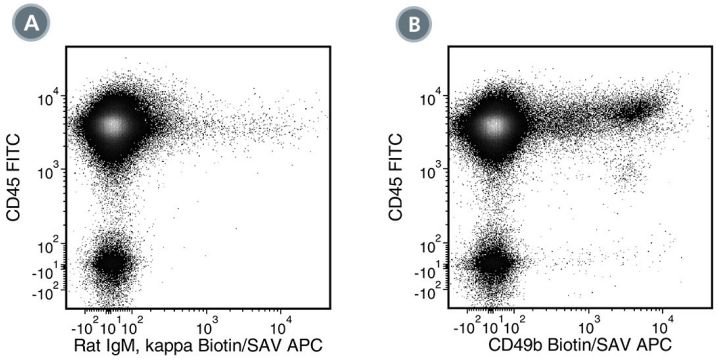
Verified:	FC
Reported:	FC, IP, WB
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry and immunofluorescence microscopy applications (surface and intracellular staining).

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 immunoglobulin was conjugated with biotin under optimal conditions, and is at > 85% purity. 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.

Data



(A) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Rat IgM, kappa Isotype Control Antibody, Clone RTK2118, Biotin followed by streptavidin (SAV) APC and Anti-Mouse CD45 Antibody, Clone 30-F11, FITC (Catalog #60030FI).
(B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD49b Antibody, Clone DX5, Biotin (Catalog #60020BT) followed by SAV APC and Anti-Mouse CD45 Antibody, Clone 30-F11, FITC.

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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2. Afek A et al. (2009) Clopidogrel attenuates atheroma formation and induces a stable plaque phenotype in apolipoprotein E knockout mice. Microvasc Res 77(3): 364–9. (FC)
3. Kato A et al. (2008) Evidence of a role for B cell-activating factor of the TNF family in the pathogenesis of chronic rhinosinusitis with nasal polyps. J Allergy Clin Immunol 121(6): 1385–92, 1392.e1–2. (IHC)
4. Mausner-Fainberg K et al. (2008) The effect of HMG-CoA reductase inhibitors on naturally occurring CD4+CD25+ T cells. Atherosclerosis 197(2): 829–39. (FC)
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