

Anti-Mouse CD43 Antibody, Clone R2/60, Biotin



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Antibodies

Rat monoclonal IgM antibody against
mouse CD43, biotin-conjugated

Catalog #60042BT	500 µg	0.5 mg/mL
#60042BT.1	100 µg	0.5 mg/mL

Product Description

The R2/60 antibody reacts with mouse CD43, a type I transmembrane sialoglycoprotein expressed on the surface of most hematopoietic cells including thymocytes, T cells, B cells, NK cells, monocytes, granulocytes, platelets, and hematopoietic progenitor cells. CD43 binds ligands such as CD54 and CD169 (siglec-1) and plays regulatory roles in cell adhesion, activation, and survival. CD43 exhibits two different glycoforms; a 115 kDa form, and an activation-associated 130 kDa form, both of which are detected by the R2/60 antibody.

Target Antigen Name:	CD43
Alternative Names:	Galactoglycoprotein, Galgp, GPL 115, LEUK, Leukocyte sialoglycoprotein, Leukosialin, LSN, Ly-48, Ly48, Sialophorin, SPN
Gene ID:	20737
Species Reactivity:	Mouse
Host Species:	Rat
Clonality:	Monoclonal
Clone:	R2/60
Isotype:	IgM, kappa
Immunogen:	Mouse intestinal epithelial lymphocytes
Conjugate:	Biotin

Applications

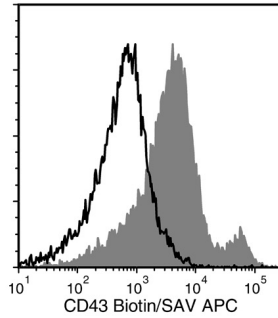
Verified:	CellSep, FC
Reported:	FA, FC, WB

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:	Aqueous buffer containing 0.09% sodium azide, may contain carrier protein/stabilizer
Purification:	The antibody was purified by column 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:	For flow cytometry the suggested use of this antibody is $\leq 0.5 \mu\text{g}$ per 1×10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.

Data



Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD43 Antibody, Clone R2/60, Biotin, followed by streptavidin (SAV) APC (filled histogram), or a biotin-conjugated rat IgM isotype control antibody, followed by SAV APC (solid line histogram).

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. Baumgartner F et al. (2013) Minor cell-death defects but reduced tumor latency in mice lacking the BH3-only proteins Bad and Bmf. *Oncogene* 32(5): 621–30. (FC)
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3. Barclay AN et al. (Eds.). (1997) *The Leucocyte Antigen FactsBook*, Second Edition. San Diego: Academic Press.
4. Sperling AI et al. (1995) CD43 is a murine T cell costimulatory receptor that functions independently of CD28. *J Exp Med* 182(July): 139–46. (FA, FC, WB)
5. Rosenstein Y et al. (1991) CD43, a molecule defective in Wiskott-Aldrich syndrome, binds ICAM-1. *Nature* 354(6350): 56–8.

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