

Technical Data Sheet

PE Rat Anti-Mouse CD153

Product Information

Material Number:	559232
Alternate Name:	CD30 Ligand
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	RM153
Immunogen:	CHO cells transfected with mouse CD153 gene (Tnfsf8)
Isotype:	Rat (SD) IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The RM153 antibody reacts with a 40-kDa type-II membrane glycoprotein, CD30 ligand (CD30L or CD153), which belongs to the NGF/TNF superfamily. In the presence of cytokines, CD153 stimulates B-cell proliferation, antigen-specific antibody production, and polyclonal immunoglobulin secretion. In addition, it costimulates the proliferation of activated T cells. This molecule is expressed on activated T cells, predominantly CD4+, on activated EL4 cells, and on activated Th1 and Th2 cells. The RM153 mAb inhibits the binding of CD153 to CD30.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553989	PE Rat IgG2b, κ Isotype Control	0.1 mg	A95-1

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Bowen MA, Lee RK, Miragliotta G, Nam SY, Podack ER. Structure and expression of murine CD30 and its role in cytokine production. *J Immunol.* 1996; 156(2):442-449. (Biology)
 Shanebeck KD, Maliszewski CR, Kennedy MK, et al. Regulation of murine B cell growth and differentiation by CD30 ligand. *Eur J Immunol.* 1995; 25(8):2147-2153. (Biology)
 Shimozato O, Takeda K, Yagita H, Okumura K. Expression of CD30 ligand (CD153) on murine activated T cells. *Biochem Biophys Res Commun.* 1999; 256(3):519-526. (Immunogen)

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