

Technical Data Sheet

V450 Rat Anti-Mouse IgM

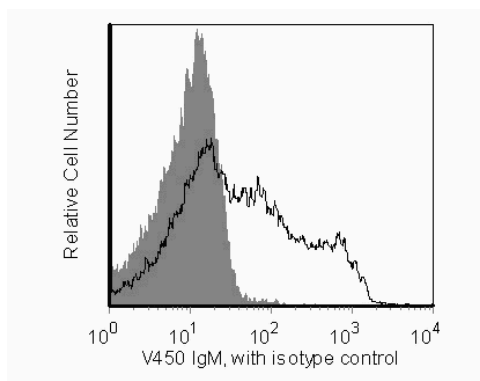
Product Information

Material Number:	560575
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	R6-60.2
Immunogen:	Pooled Mouse Ig
Isotype:	Rat (LOU) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The R6-60.2 antibody reacts specifically with mouse IgM of Igh-C[a] and Igh-C[b] haplotypes. It does not react with other Ig isotypes. R6-60.2 antibody has not been shown to stimulate B-cell proliferation.

The antibody is conjugated to BD Horizon™ V450, which has been developed for use in multicolor flow cytometry experiments and is available exclusively from BD Biosciences. It is excited by the Violet laser Ex max of 406 nm and has an Em Max at 450 nm. Conjugates with BD Horizon™ V450 can be used in place of Pacific Blue™ conjugates.



Analysis of IgM on mouse splenocytes. Splenocytes from BALB/c mice were stained with the BD Horizon™ V450 Rat Anti-Mouse IgM antibody (unshaded) or a BD Horizon™ V450 Rat IgG2a, κ isotype control (shaded). Histograms were derived from gated events based on light scattering characteristics for CD3⁺ splenocytes. Flow cytometry was performed on a BD™ LSR II flow cytometry system.

Preparation and Storage

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

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

The antibody was conjugated with BD Horizon™ V450 under optimum conditions, and unreacted BD Horizon™ V450 was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

Flow cytometry: For flow cytometric detection of intracytoplasmic IgM, FITC conjugated mAb II/41 is recommended (MN 553437).

Suggested Companion Products

Catalog Number	Name	Size	Clone
560377	V450 Rat IgG2a, κ Isotype Control	0.1 mg	R35-95
553437	FITC Rat Anti-Mouse IgM	0.5 mg	II/41

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. BD Horizon™ V450 has a maximum absorption of 406 nm and maximum emission of 450 nm. Before staining with this reagent, please confirm that your flow cytometer is capable of exciting the fluorochrome and discriminating the resulting fluorescence.
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.

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5. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
7. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Greimers R, Trebak M, Moutschen M, Jacobs N, Boniver J. Improved four-color flow cytometry method using fluo-3 and triple immunofluorescence for analysis of intracellular calcium ion ($[Ca^{2+}]_i$) fluxes among mouse lymph node B- and T-lymphocyte subsets. *Cytometry*. 1996; 23(3):205-217. (Methodology: Flow cytometry)

Shapiro HM. *Practical Flow Cytometry, 3rd Edition*. New York: Wiley-Liss, Inc; 1995:280-281. (Methodology: Flow cytometry)