Technical Data Sheet

Biotin Rat Anti-Mouse IgM

Product Information

Material Number:	**553436**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	II/41
Immunogen:	Not reported
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The II/41 clone has been reported to react specifically with mouse IgM of Igh-C[a] and Igh-C[b] haplotypes. It has been reported not to react with other Ig isotypes. In addition, the II/41 clone has been reported not to stimulate B-cell proliferation.

This antibody is routinely tested by ELISA and flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

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 biotin under optimum conditions, and unreacted biotin was removed.

Application Notes

Application

ELISA Detection	Routinely Tested
Flow cytometry	Routinely Tested

Recommended Assay Procedure:

Flow cytometry: For flow cytometric detection of intracytoplasmic IgM, FITC anti-mouse IgM (clone II/41) (Cat. No. 553437) is recommended.

ELISA: This antibody, coupled with avidin-HRP (Cat.No. 554058), may be used at ~2 µg/ml as the detection antibody for the detection of mouse IgM by indirect ELISA. For the detection of mouse IgM by sandwich ELISA, purified rat anti-mouse IgM (clone II/41) (Cat. No. 553435) is recommended for capture coupled with biotin-conjugated rat anti-mouse IgM (clone R6-60.2) (Cat. No. 553406) and avidin-HRP (Cat.No. 554058) for detection. Purified mouse IgM (Cat.No. 553472) may be used as the ELISA standard for either the indirect or sandwich ELISA.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554057	Avidin FITC	0.5 mg	(none)
553928	Biotin Rat IgG2a, κ Isotype Control	0.25 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. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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

Laszlo G, Hathcock KS, Dickler HB, Hodes RJ. Characterization of a novel cell-surface molecule expressed on subpopulations of activated T and B cells. *J Immunol.* 1993; 150(12):5252-5262.(Biology)

BD Biosciences
bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

BD BD Biosciences