

Technical Data Sheet

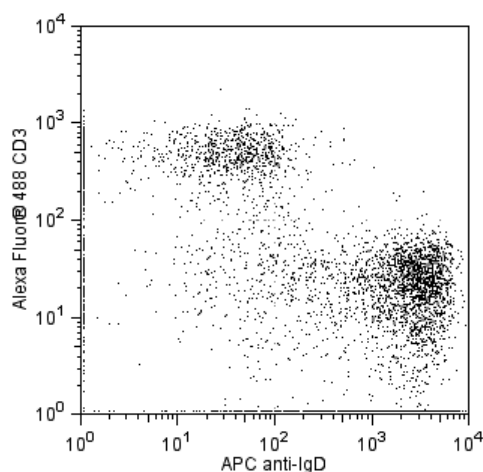
APC Rat Anti-Mouse IgD

Product Information

Material Number:	560868
Alternate Name:	IGHD; Igh-5; Immunoglobulin heavy chain 5; Ig delta chain C region
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	11-26c.2a
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 11-26c.2a monoclonal antibody specifically binds to mouse immunoglobulin D of all *Igh-C* haplotypes (e.g., IgDa, IgDb, IgDe), and it does not react with other immunoglobulin isotypes. Although 11-26c.2a mAb binds membrane IgD expressed on the splenic B-cell surface with high affinity, it does not induce proliferation of splenic B cells *in vitro*. *In vivo* injection of 11-26c.2a antibody does not have any effect on activation of mature B cells, as determined by MHC class II antigen expression.



Flow cytometric analysis of surface IgD on BALB/c mouse splenocytes. BALB/c splenocytes were simultaneously stained with APC Rat anti-Mouse IgD (Cat. No. 560868) and Alexa Fluor® 488 Hamster anti-Mouse CD3 (Cat. No. 557666). A two-color flow cytometric dot plots showing the correlated expression of IgD versus CD3 was derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed on a BD LSR™ II Flow Cytometry System.

Preparation and Storage

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

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC 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
557666	Alexa Fluor® 488 Hamster Anti-Mouse CD3e	0.1 mg	145-2C11
554656	Stain Buffer (FBS)	500 ml	(none)

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.

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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.
4. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

- Hamilton AM, Lehuen A, Kearney JF. Immunofluorescence analysis of B-1 cell ontogeny in the mouse. *Int Immunol*. 1994; 6(3):355-361. (Biology)
- Ishihara K, Wood WJ Jr, Wall R, et al. Multiple B29 containing complexes on murine B lymphocytes. Common and stage-restricted Ig-associated polypeptide chains. *J Immunol*. 1993; 150(6):2253-2262. (Biology)
- Nitschke L, Kosco MH, Kohler G, Lamers MC. Immunoglobulin D-deficient mice can mount normal immune responses to thymus-independent and -dependent antigens. *Proc Natl Acad Sci U S A*. 1993; 90(5):1887-1891. (Clone-specific: Flow cytometry)