Technical Data Sheet

BV480 Rat Anti-Mouse IgD

Product Information

Material Number: 566199
Alternate Name: IGHD; Igh-5; Immunoglobulin heavy chain 5; Ig delta chain C region
Size: 25 µg
Concentration: 0.2 mg/ml
Clone: 11-26c.2a
Isotype: Rat IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing BSA and ≤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.

The antibody was conjugated to BD Horizon BV480 which is part of the BD Horizon Brilliant™ Violet family of dyes. With an Ex Max of 436-nm and Em Max at 478-nm, BD Horizon BV480 can be excited by the violet laser and detected in the BD Horizon BV510 (525/40-nm) filter set. BV480 has less spillover into the BV605 detector and, in general, is brighter than BV510.

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 BV480 under optimum conditions, and unconjugated antibody and free BD Horizon BV480 were removed.

Application Notes

Routinely Tested

Flow cytometry

Two-color flow cytometric analysis of IgD expression on mouse splenocytes. Mouse splenic leukocytes were stained with APC Hamster Anti-Mouse CD3ε antibody (Cat. No. 553066/561826) and either BD Horizon™ BV480 Rat IgG2a, κ Isotype Control (Cat. No. 566630; Left Plot) or BD Horizon BV480 Rat Anti-Mouse IgD antibody (Cat. No. 566106/566199; Right Plot).

Preparation and Storage

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966199 Rev. 1
Recommended Assay Procedure:
For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes are used in the same experiment. Fluorescent dye interactions may cause staining artifacts which may affect data interpretation. The BD Horizon Brilliant Stain Buffer was designed to minimize these interactions. More information can be found in the Technical Data Sheet of the BD Horizon Brilliant Stain Buffer (Cat. No. 563794).

Suggested Companion Products

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<td>Stain Buffer (BSA)</td>
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<td>BV480 Rat Anti-Mouse IgD</td>
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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. 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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. BD Horizon Brilliant Violet 480 is covered by one or more of the following US patents: 8,575,303; 8,354,239.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References
Campbell KS, Cambier JC. B lymphocyte antigen receptors (mIg) are non-covalently associated with a disulfide linked, inducibly phosphorylated glycoprotein complex. EMBO J. 1990; 9(2):441-448. (Clone-specific: Immunoprecipitation)