

## Technical Data Sheet

**BV421 Rat Anti-Mouse Ig, #1, #2 & #3 Light Chain**

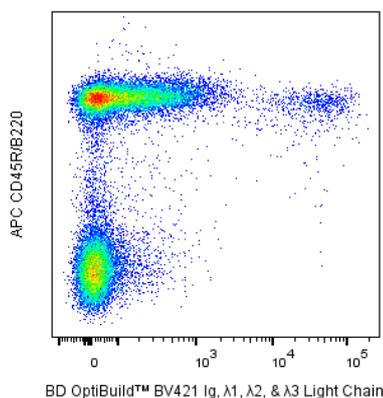
## Product Information

Material Number:	744523
Size:	50 µg
Clone:	R26-46
Alternative Name:	IgI; Ig λ; Immunoglobulin lambda chain complex; Ig λ1/λ2/λ3
Reactivity:	Mouse (Tested in Development)
Isotype:	Rat IgG2a, κ
Immunogen:	Pooled Mouse Ig
Application:	Flow cytometry (Qualified)
Concentration:	0.2 mg/ml
Entrez Gene ID:	111519
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.
Regulatory Status:	RUO

**Description**

The R26-46 antibody reacts specifically with mouse Igs bearing λ1, λ2, or λ3 light chains. It does not react with κ light chain or heavy chain. Detection of surface immunoglobulin on Ig λ chain-secreting hybridoma cells has been demonstrated with R26-46 mAb.

The antibody was conjugated to BD Horizon™ BV421 which is part of the BD Horizon Brilliant™ Violet family of dyes. With an Ex Max of 407-nm and Em Max at 421-nm, BD Horizon BV421 can be excited by the violet laser and detected in the standard Pacific Blue™ filter set (eg, 450/50-nm filter). BD Horizon BV421 conjugates are very bright, often exhibiting a 10 fold improvement in brightness compared to Pacific Blue conjugates.



Multiparameter flow cytometric analysis using BD OptiBuild™ BV421 Rat Anti-Mouse Ig, λ1, λ2, & λ3 Light Chain antibody (Cat. No. 744523) on live BALB/c mouse splenocytes. Flow cytometry was performed using a BD LSRFortessa™ Flow Cytometer 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 BV421 under optimal conditions that minimize unconjugated dye and antibody.

**Recommended Assay Procedure**

For optimal and reproducible results, BD Horizon Brilliant Stain Buffer should be used anytime two or more BD Horizon Brilliant dyes (including BD OptiBuild Brilliant reagents) 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

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	
554657	Stain Buffer (BSA)	500 mL	
563794	Brilliant Stain Buffer	100 Tests	
555899	Lysing Buffer	100 mL	
562602	BV421 Rat IgG2 $\alpha$ , $\kappa$ Isotype Control	50 $\mu$ g	R35-95
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)	0.1 mg	2.4G2

## Product Notices

1. This antibody was developed for use in flow cytometry.
2. The production process underwent stringent testing and validation to assure that it generates a high-quality conjugate with consistent performance and specific binding activity. However, verification testing has not been performed on all conjugate lots.
3. Researchers should determine the optimal concentration of this reagent for their individual applications.
4. An isotype control should be used at the same concentration as the antibody of interest.
5. 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.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
7. Please refer to [www.bdbiosciences.com/us/s/resources](http://www.bdbiosciences.com/us/s/resources) for technical protocols.
8. BD Horizon Brilliant Stain Buffer is covered by one or more of the following US patents: 8,110,673; 8,158,444; 8,575,303; 8,354,239.
9. BD Horizon Brilliant Violet 421 is covered by one or more of the following US patents: 8,158,444; 8,362,193; 8,575,303; 8,354,239.
10. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.

## References

- Li Y, Li H, Weigert M. Autoreactive B cells in the marginal zone that express dual receptors.. J Exp Med. 2002; 195(2):181-8. (Clone-specific: Flow cytometry).
- Rolink AG, Winkler T, Melchers F, Andersson J. Precursor B cell receptor-dependent B cell proliferation and differentiation does not require the bone marrow or fetal liver environment.. J Exp Med. 2000; 191(1):23-32. (Clone-specific: Flow cytometry).

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