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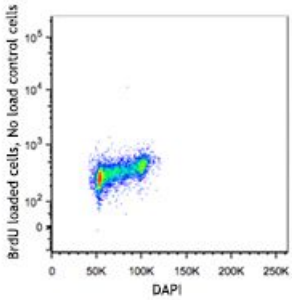
Product Data Sheet

Brilliant Violet 421™ Rat IgG1, κ Isotype Ctrl

Catalog # / Size:	2602150 / 500 µl 2602145 / 125 µl 2602195 / 50 µg
Clone:	RTK2071
Isotype:	Rat IgG1, κ
Immunogen:	Trinitrophenol + KLH
Preparation:	The immunoglobulin was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific

Applications:

Applications:	Flow Cytometry, Intracellular Staining for Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis as negative control. Use at concentrations comparable to those of the specific antibody of interest. Use our Concentration Lookup tool to find the exact concentrations of your lots of product. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.



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Application Notes: The RTK2071 immunoglobulin is useful as an isotype-matched control (for the relevant formats) for Western blotting, immunoprecipitation, immunohistochemistry, functional assay, and immunofluorescence microscopy. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 400414) as negative control1. For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 400432) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

Application References:

1. Riemann M, *et al.* 2005. *J. Immunol.* 175:3560. PubMed
2. Wondimu Z, *et al.* 2010. *Am. J. Pathol.* 177:2334. PubMed

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Description: The isotype of RTK2071 immunoglobulin is rat IgG1, κ. This antibody was chosen as an isotype control after screening on a variety of resting, activated, live, and fixed mouse, rat and human tissues.

Antigen References:

1. Dundas CM, *et al.* 2013. *Appl. Microbiol. Biotechnol.* 97:9343.
2. Zhao X, *et al.* 2013. *J. Anal. Methods Chem.* 2013:581093.
3. Kaplan DL, *et al.* 1999. *Biomol. Eng.* 16:135.
4. Wilbur DS, *et al.* 1999. *Biomol. Eng.* 16:113.
5. Sano T, *et al.* 1998. *J. Chromatogr. B. Biomed. Sci. Appl.* 715:85.

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