SONY

Product Data Sheet

Brilliant Violet 605™ Rat IgG2b, κ Isotype Ctrl

Catalog # / Size: 2603285 / 50 µg
2603245 / 125 µl
2603250 / 500 µl

Clone: RTK4530

Isotype: Rat IgG2b, κ

Immunogen: Trinitrophenol + KLH

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

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. For flow cytometric staining, use the isotype control at the same concentration as your primary antibody. Use our Concentration Lookup tool to find the exact concentrations of your lots of product.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

Application Notes: The RTK4530 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. 400622) as negative control. For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 400644) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

Application References:

1. Cervantes-Barragan L, *et al.* 2007. *Blood* 109:1131.
2. Zeiser R, *et al.* 2007. *Blood* 109:2225.
3. Sasaki K, *et al.* 2008. *J. Immunol.* 181:104. PubMed
4. Duan J, *et al.* 2008. *P. Natl. Acad. Sci. USA* 105:5183. PubMed
5. Yi H, *et al.* 2009. *Blood* 113:5819. PubMed
6. Schafeer JS, *et al.* 2010. *J. Leukocyte Biol.* 87:301. PubMed
7. Lei GS, *et al.* 2015. *Infect Immun.* 83:572. PubMed
8. Richards J, *et al.* 2015. *Mol Cell Cardiol.* 79:21. PubMed

Description: The isotype of RTK4530 immunoglobulin is rat IgG2b, 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.

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Antigen References:

1. Horbelt D, *et al*. 2010. *J Cell Sci*. 123:4340-50.
2. Wei CY, *et al*. 2015. *Int J Clin Exp Pathol*. 8:14619-29.
3. Numata S, *et al*. 2008. *J Psychiatr Res*. 42:425-32.

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