

## Ultra-LEAF™ Purified Rat IgG2b, κ Isotype Ctrl Antibody

<b>Catalog# / Size</b>	400643 / 100 µg 400644 / 1 mg 400671 / 5 mg 400672 / 25 mg 400675 / 50 mg 400676 / 100 mg
<b>Clone</b>	RTK4530
<b>Regulatory Status</b>	RUO
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	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.

### Product Details

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<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Trinitrophenol + KLH
<b>Formulation</b>	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
<b>Preparation</b>	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
<b>Concentration</b>	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">ICFC, ICC, IHC, IP, WB, FA - Reported in the literature, not verified in house</a>
<b>Recommended Usage</b>	Each lot of this rat IgG2b, κ isotype control antibody is quality control tested by immunofluorescent staining with flow cytometric analysis as negative control, and the purity is greater than 95% by SDS-PAGE. Use at concentrations comparable to those of the specific antibody of interest.
<b>Application Notes</b>	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 Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 400643, 400644, 400671, 400672, 400675, and 400676) as negative control.
<b>Additional Product Notes</b>	View more applications data for this product in our <a href="#">Scientific Poster Library</a> .  Watch a <a href="#">Scientific Poster video</a> of this product.
<b>Application References</b>	1. Cervantes-Barragan L, <i>et al.</i> 2007. <i>Blood</i> 109:1131. 2. Zeiser R, <i>et al.</i> 2007. <i>Blood</i> 109:2225. 3. Sasaki K, <i>et al.</i> 2008. <i>J. Immunol.</i> 181:104. <a href="#">PubMed</a> 4. Duan J, <i>et al.</i> 2008. <i>P. Natl. Acad. Sci. USA</i> 105:5183. <a href="#">PubMed</a> 5. Yi H, <i>et al.</i> 2009. <i>Blood</i> 113:5819. <a href="#">PubMed</a> 6. Schafeer JS, <i>et al.</i> 2010. <i>J. Leukocyte Biol.</i> 87:301. <a href="#">PubMed</a> 7. Lei GS, <i>et al.</i> 2015. <i>Infect Immun.</i> 83:572. <a href="#">PubMed</a> 8. Richards J, <i>et al.</i> 2015. <i>Mol Cell Cardiol.</i> 79:21. <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	

## Product Citations

1. Sodir NM, *et al.* 2020. *Cancer Discov.* 0.825. [PubMed](#)
2. Neupane AS, *et al.* 2020. *Cell.* 183(1):110-125.e11. [PubMed](#)
3. Rocha-Resende C, *et al.* 2021. *J Mol Cell Cardiol.* 157:98. [PubMed](#)
4. Shibuya M, *et al.* 2021. *iScience.* 24:103131. [PubMed](#)
5. Bonamichi-Santos R, *et al.* 2021. *Front Immunol.* 12:655958. [PubMed](#)
6. Morrissey MA, *et al.* 2020. *Immunity.* 53(2):290-302.e6. [PubMed](#)
7. Kerdidani D, *et al.* 2022. *J Exp Med.* 219:. [PubMed](#)
8. Radulovic V, *et al.* 2020. *Cell Reports.* 27(10):2826-2836.e5. [PubMed](#)

## RRID

AB\_11147763 (BioLegend Cat. No. 400643)  
AB\_11149687 (BioLegend Cat. No. 400644)

## Antigen Details

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### Structure

The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 810 under optimal conditions.

### Gene ID

NA

## Other Formats

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APC Rat IgG2b, κ Isotype Ctrl, Biotin Rat IgG2b, κ Isotype Ctrl, FITC Rat IgG2b, κ Isotype Ctrl, PE Rat IgG2b, κ Isotype Ctrl, PE/Cyanine5 Rat IgG2b, κ Isotype Ctrl, Purified Rat IgG2b, κ Isotype Ctrl, PE/Cyanine7 Rat IgG2b, κ Isotype Ctrl, APC/Cyanine7 Rat IgG2b, κ Isotype Ctrl, Alexa Fluor® 647 Rat IgG2b, κ Isotype Ctrl, Alexa Fluor® 488 Rat IgG2b, κ Isotype Ctrl, Pacific Blue™ Rat IgG2b, κ Isotype Ctrl, Alexa Fluor® 700 Rat IgG2b, κ Isotype Ctrl, PerCP Rat IgG2b, κ Isotype Ctrl, PerCP/Cyanine5.5 Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 421™ Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 570™ Rat IgG2b, κ Isotype Ctrl, Ultra-LEAF™ Purified Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 510™ Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 605™ Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 785™ Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 650™ Rat IgG2b, κ Isotype Ctrl, Brilliant Violet 711™ Rat IgG2b, κ Isotype Ctrl, PE/Dazzle™ 594 Rat IgG2b, κ Isotype Ctrl, Alexa Fluor® 594 Rat IgG2b, κ Isotype Ctrl, GolnVivo™ Purified Rat IgG2b, κ Isotype Ctrl, APC/Fire™ 750 Rat IgG2b, κ Isotype Ctrl, TotalSeq™-A0095 Rat IgG2b, κ Isotype Ctrl, TotalSeq™-C0095 Rat IgG2b, κ Isotype Ctrl, KIRAVIA Blue 520™ Rat IgG2b, κ Isotype Ctrl, Spark Blue™ 550 Rat IgG2b, κ Isotype Ctrl, PE/Fire™ 640 Rat IgG2b, κ Isotype Ctrl, APC/Fire™ 810 Rat IgG2b, κ Isotype Ctrl, PE/Fire™ 700 Rat IgG2b, κ Isotype Ctrl, TotalSeq™-B0095 Rat IgG2b, κ Isotype Ctrl

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