

PE Rat IgG1, κ Isotype Ctrl Antibody

Catalog# / Size	400407 / 25 µg 400408 / 100 µg
Clone	RTK2071
Regulatory Status	RUO
Isotype	Rat IgG1, κ
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.

Product Details

Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Trinitrophenol + KLH
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested ICFC - Verified
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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
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 control ¹ . For <i>in vivo</i> 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/µg).
Application References	1. Riemann M, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:3560. PubMed 2. Wondimu Z, <i>et al.</i> 2010. <i>Am. J. Pathol.</i> 177:2334. PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	1. Hattori Y, <i>et al.</i> 2022. <i>J Neurosci.</i> 42:362. PubMed 2. Li B, Schmidt N 2016. <i>PLoS One.</i> 11: 0162427. PubMed 3. Murata A, <i>et al.</i> 2020. <i>Front Immunol.</i> 11:775. PubMed 4. Machata S, <i>et al.</i> 2021. <i>Front Immunol.</i> 11:565869. PubMed 5. Christian LS, <i>et al.</i> 2021. <i>Cell Reports.</i> 35(6):109118. PubMed 6. Volpedo G, <i>et al.</i> 2022. <i>NPJ Vaccines.</i> 7:32. PubMed 7. She L, <i>et al.</i> 2021. <i>JCI Insight.</i> 6:e143509. PubMed 8. Zhuang Z, <i>et al.</i> 2021. <i>J Exp Med.</i> 218:00:00. PubMed 9. Grainger J, <i>et al.</i> 2010. <i>J Exp Med.</i> 207:2331. PubMed 10. Iwabuchi R, <i>et al.</i> 2021. <i>Frontiers in Immunology.</i> 12:643040. PubMed 11. Fulham MA, <i>et al.</i> 2019. <i>Am J Physiol Cell Physiol.</i> 317:C687. PubMed

12. Hegde S, *et al.* 2020. *Cancer Cell*. 37(3):289-307. [PubMed](#)
13. Colliou N, *et al.* 2018. *Gut Microbes*. 9:279. [PubMed](#)
14. Gong Y, *et al.* 2020. *Cell Metabolism*. 33(1):51-64.e9. [PubMed](#)
15. Wu L, *et al.* 2018. *Oncol Lett*. 15:9507. [PubMed](#)
16. Yang B, *et al.* 2022. *Bioengineered*. 13:2685. [PubMed](#)
17. She L, *et al.* 2019. *J Immunol*. 203:2520. [PubMed](#)
18. Liu X, *et al.* 2020. *Cell Host Microbe*. 28(5):683-698.e6. [PubMed](#)
19. Shih T, *et al.* 2019. *Front Immunol*. 10:1652. [PubMed](#)
20. Cohen M *et al.* 2018. *Cell*. 175(4):1031-1044. [PubMed](#)
21. Nam GH, *et al.* 2018. *Nat Commun*. 9:2165. [PubMed](#)
22. Galle-Treger L, *et al.* 2019. *Nat Commun*. 10:713. [PubMed](#)
23. Santini MP, *et al.* 2020. *Cell Rep*. 30:555. [PubMed](#)
24. Montel-Hagen A *et al.* 2019. *Cell stem cell*. 24(3):376-389. [PubMed](#)
25. Clemente-Casares X, *et al.* 2017. *Immunity*. 47:974. [PubMed](#)
26. Pai CS, *et al.* 2020. *Immunity*. 50(2):477-492. [PubMed](#)
27. Aggarwal N, *et al.* 2021. *Cell Rep*. 37:110170. [PubMed](#)

RRID AB_326513 (BioLegend Cat. No. 400407)
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Antigen Details

Gene ID NA

Other Formats

APC Rat IgG1, κ Isotype Ctrl, Biotin Rat IgG1, κ Isotype Ctrl, FITC Rat IgG1, κ Isotype Ctrl, PE Rat IgG1, κ Isotype Ctrl, PE/Cyanine5 Rat IgG1, κ Isotype Ctrl, Purified Rat IgG1, κ Isotype Ctrl, PE/Cyanine7 Rat IgG1, κ Isotype Ctrl, Alexa Fluor® 647 Rat IgG1, κ Isotype Ctrl, Alexa Fluor® 488 Rat IgG1, κ Isotype Ctrl, Pacific Blue™ Rat IgG1, κ Isotype Ctrl, Alexa Fluor® 700 Rat IgG1, κ Isotype Ctrl, APC/Cyanine7 Rat IgG1, κ Isotype Ctrl, PerCP Rat IgG1, κ Isotype Ctrl, PerCP/Cyanine5.5 Rat IgG1, κ Isotype Ctrl, Brilliant Violet 421™ Rat IgG1, κ Isotype Ctrl, Ultra-LEAF™ Purified Rat IgG1, κ Isotype Ctrl, Brilliant Violet 605™ Rat IgG1, κ Isotype Ctrl, Brilliant Violet 510™ Rat IgG1, κ Isotype Ctrl, Brilliant Violet 650™ Rat IgG1, κ Isotype Ctrl, Brilliant Violet 711™ Rat IgG1, κ Isotype Ctrl, Brilliant Violet 785™ Rat IgG1, κ Isotype Ctrl, PE/Dazzle™ 594 Rat IgG1, κ Isotype Ctrl, Alexa Fluor® 594 Rat IgG1, κ Isotype Ctrl, GoInVivo™ Purified Rat IgG1, κ Isotype Ctrl, APC/Fire™ 750 Rat IgG1, κ Isotype Ctrl, TotalSeq™-A0236 Rat IgG1, κ Isotype Ctrl, KIRAVIA Blue 520™ Rat IgG1, κ Isotype Ctrl, TotalSeq™-B0236 Rat IgG1, κ Isotype Ctrl, TotalSeq™-C0236 Rat IgG1, κ Isotype Ctrl, Spark YG™ 581 Rat IgG1, κ Isotype Ctrl, Spark YG™ 593 Rat IgG1, κ Isotype Ctrl

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