

Alexa Fluor® 647 Goat anti-mouse IgG (minimal x-reactivity) Antibody

Catalog# / Size	405322 / 100 µg
Clone	Poly4053
Regulatory Status	RUO
Isotype	Goat Polyclonal IgG
Description	This polyclonal goat anti-mouse IgG antibody reacts with the heavy chains of mouse IgG and with the light (kappa and lambda) chains common to most mouse immunoglobulins. No cross-reactivity has been detected against non-immunoglobulin serum proteins. This antibody has been solid-phase absorbed to ensure minimal cross-reaction with rat, human, bovine, horse, and rabbit immunoglobulins, but it may have minimal cross-reactivity with other subclasses of mouse immunoglobulins.

Product Details

Verified Reactivity	Mouse
Antibody Type	Polyclonal
Host Species	Goat
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	0.5 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 IHC-P - Verified
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. For immunohistochemistry on formalin-fixed paraffin-embedded tissue sections, the suggested use of this reagent is 2.5 - 5.0 µg/mL. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application Notes	This polyclonal goat anti-mouse IgG antibody is useful for capture or detection of mouse IgG in ELISA.
Application References	<ol style="list-style-type: none">1. Scotta C, <i>et al.</i> 2008. <i>J Immunol.</i> 181:1025-33. PubMed2. Gao X, <i>et al.</i> 2014. <i>Cell Mol Neurobiol.</i> 34:257-68 (ICC)3. Winters T, <i>et al.</i> 2014. <i>EMBO J.</i> 33:1256-70.
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none">1. Smith R, <i>et al.</i> 2017. <i>Biophys J.</i> 10.1016/j.bpj.2017.05.005. PubMed2. Jung WH, <i>et al.</i> 2019. <i>Cells.</i> 8:813. PubMed3. Zhao Y, <i>et al.</i> 2020. <i>Immunity.</i> 51(6):1059-1073.e9.. PubMed4. özdilek A, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:1280. PubMed5. Pandey N, <i>et al.</i> 2020. <i>J Cell Biol.</i> 219:00:00. PubMed6. Zheng W, <i>et al.</i> 2020. <i>Nature.</i> 577:543. PubMed7. Omori S, <i>et al.</i> 2021. <i>Cell Reports.</i> 34(6):108734. PubMed

Antigen Details

Distribution	B cells
Gene ID	16059

Related Protocols

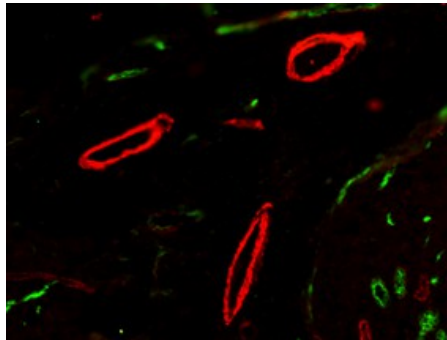
[Cell Surface Flow Cytometry Staining Protocol](#)

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

Other Formats

APC Goat anti-mouse IgG (minimal x-reactivity), Biotin Goat anti-mouse IgG (minimal x-reactivity), FITC Goat anti-mouse IgG (minimal x-reactivity), HRP Goat anti-mouse IgG (minimal x-reactivity), PE Goat anti-mouse IgG (minimal x-reactivity), Purified Goat anti-mouse IgG (minimal x-reactivity), Cyanine3 Goat anti-mouse IgG (minimal x-reactivity), PE/Cyanine7 Goat anti-mouse IgG (minimal x-reactivity), PerCP/Cyanine5.5 Goat anti-mouse IgG (minimal x-reactivity), DyLight™ 488 Goat anti-mouse IgG (minimal x-reactivity), DyLight™ 649 Goat anti-mouse IgG (minimal x-reactivity), Alexa Fluor® 594 Goat anti-mouse IgG (minimal x-reactivity), APC/Cyanine7 Goat anti-mouse IgG (minimal x-reactivity), Brilliant Violet 421™ Goat anti-mouse IgG (minimal x-reactivity), Alexa Fluor® 488 Goat anti-mouse IgG (minimal x-reactivity), Alexa Fluor® 647 Goat anti-mouse IgG (minimal x-reactivity), Alexa Fluor® 555 Goat anti-mouse IgG (minimal x-reactivity), Brilliant Violet 605™ Goat anti-mouse IgG (minimal x-reactivity), Brilliant Violet 510™ Goat anti-mouse IgG (minimal x-reactivity), PE/Dazzle™ 594 Goat anti-mouse IgG (minimal x-reactivity), PerCP Goat anti-mouse IgG (minimal x-reactivity), APC/Fire™ 750 Goat anti-mouse IgG (minimal x-reactivity), Spark YG™ 570 Goat anti-mouse IgG (minimal x-reactivity)

Product Data



Human paraffin-embedded tonsil tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0M, pH 7.4) at 95°C for 40 minutes. Tissue was washed with PBS/ 0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/ml of purified anti-human CD309/VEGFR2 (clone A160851) and Alexa Fluor® 594 anti-human PNAD (clone MECA-79) (green) at 4°C overnight, followed by 2.5 µg/ml of Alexa Fluor® 647 anti-mouse IgG (clone Poly4053) (red) for two hours at room temperature. The image was captured with a 10X objective.

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