

## Alexa Fluor® 488 anti-GFP Antibody

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|--------------------------|---|
| <b>Catalog# / Size</b>   | 338007 / 25 tests<br>338008 / 100 tests   |
| <b>Clone</b>             | FM264G  |
| <b>Regulatory Status</b> | RUO   |
| <b>Other Names</b>       | Green Fluorescent Protein   |
| <b>Isotype</b>           | Rat IgG2a, κ  |
| <b>Description</b>       | Green fluorescent protein (GFP) was originally identified as a protein involved in bioluminescence, which is from the jellyfish <i>Aequorea Victoria</i> . It is widely used as a fluorescent indicator for monitoring gene expression in a variety of cellular systems, including living organisms and fixed tissues. Unlike other bioluminescent reporters, GFP fluoresces without the need for exogenous substrates or cofactors, or other intrinsic or extrinsic proteins, making GFP a useful tool for monitoring gene expression and protein localization <i>in vivo</i> . Purified GFP is a 27 kD monomer consisting of 238 amino acids and emits green light (emission maximum at 509 nm) when excited with blue or UV light. |

### Product Details

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|---|--|
| <b>Antibody Type</b>  | Monoclonal   |
| <b>Host Species</b>   | Rat  |
| <b>Immunogen</b>  | TLR9-GFP transfected cell line   |
| <b>Formulation</b>  | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)  |
| <b>Preparation</b>  | The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.  |
| <b>Concentration</b>  | Lot-specific (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, and protected from prolonged exposure to light. <b>Do not freeze.</b>  |
| <b>Application</b>  | <a href="#">ICFC - Quality tested</a>  |
| <b>Recommended Usage</b>  | Each lot of this antibody is quality control tested by <a href="#">intracellular immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.<br><br>* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.<br><br>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.<br><br><a href="#">View full statement regarding label licenses</a> |
| <b>Excitation Laser</b>   | Blue Laser (488 nm)  |
| <b>Application Notes</b>  | Additional reported applications (for the relevant formats) include: immunocytochemistry <sup>1</sup> .  |
| <b>Application References</b><br>(PubMed link indicates BioLegend citation) | 1. Stephen LA, <i>et al.</i> 2018. <i>Dev. Cell.</i> 47(1):122-132.e4. <a href="#">PubMed</a> (ICC)  |
| <b>Product Citations</b>  | 1. Hirai T, <i>et al.</i> 2020. <i>Immunity.</i> 54(1):84-98.e5. <a href="#">PubMed</a><br>2. Komuczki J, <i>et al.</i> 2019. <i>Immunity.</i> 50:1289. <a href="#">PubMed</a><br>3. Kim S, <i>et al.</i> 2020. <i>Immunity.</i> 53(4):759-774.e9. <a href="#">PubMed</a><br>4. Mastorakos P, <i>et al.</i> 2015. <i>Proc Natl Acad Sci U S A.</i> 112: 8720 - 8725. <a href="#">PubMed</a><br>5. Adriaenssens E, <i>et al.</i> 2020. <i>Sci Rep.</i> 10:8755. <a href="#">PubMed</a>  |

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22. Chen R, *et al.* 2019. *Mol Med Rep*. 1.172916667. [PubMed](#)

**RRID** AB\_2563287 (BioLegend Cat. No. 338007)  
 AB\_2563288 (BioLegend Cat. No. 338008)

## Antigen Details

|                           |   |
|---------------------------|---|
| <b>Biology Area</b>       | Cell Biology, Immunology  |
| <b>Antigen References</b> | <ol style="list-style-type: none"> <li>1. Ishikura H, <i>et al.</i> 2004. <i>Anticancer Res</i>. 24:719.</li> <li>2. Rizzuto R, <i>et al.</i> 1996. <i>Curr. Biol</i>. 6:183.</li> <li>3. Chalfie M, <i>et al.</i> 1994. <i>Science</i> 263:802.</li> </ol> |
| <b>Gene ID</b>            | NA  |

## Related Protocols

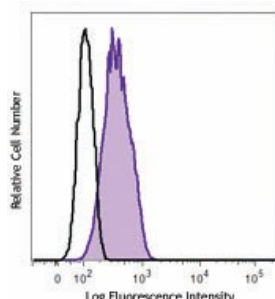
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

## Other Formats

Alexa Fluor® 488 anti-GFP, Purified anti-GFP, PE anti-GFP, Alexa Fluor® 647 anti-GFP, APC anti-GFP, PerCP/Cyanine5.5 anti-GFP, PE/Cyanine7 anti-GFP

## Product Data



GFP transfected CHO cells were fixed and permeabilized, and then intracellularly stained with anti-GFP (clone FM264G) Alexa Fluor® 488 (filled histogram) or isotype control rat IgG2a Alexa Fluor® 488 (open histogram).

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