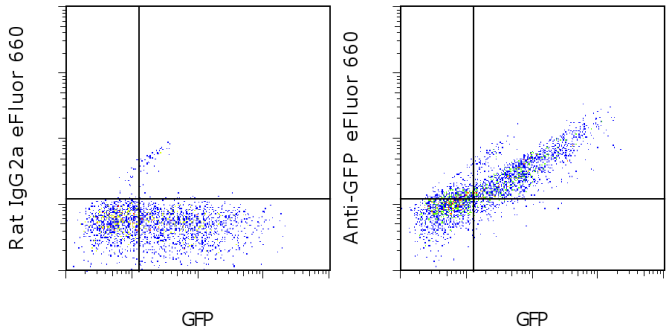
Anti-GFP eFluor® 660

Catalog Number: 50-6498
Also known as: Green fluorescent protein
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of GFP-transiently transfected cells with 0.06 ug of Rat IgG2a K Isotype Control eFluor® 660 (cat. 50-4321) (left) or 0.06 ug of Anti-GFP eFluor® 660 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-GFP eFluor® 660
REF **Catalog Number:** 50-6498
Clone: 5F12.4
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2a, kappa

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

This 5F12.4 monoclonal antibody reacts with green-fluorescent protein (GFP), which was originally isolated from the cnidarian Aequorea victoria. This protein absorbs blue light (maximally at 395 nm) and emits green light (peak at 509) without the requirement of exogenous substrates and cofactors. These unique qualities allow GFP to be used to monitor gene expression and protein localization in vivo. Several mutant forms of GFP have been developed which fluoresce more intensely and have shifted excitation maxima when compared to wildtype GFP, making them useful for flow cytometry, fluorescence microscopy, and double-labeling applications. This antibody is capable of staining formaldehyde fixed cells.

Applications Reported

This 5F12.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 5F12.4 antibody has been tested by flow cytometric analysis of GFP expressing cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

Cormack B.P., Valdivia R.H., and Falkow S. 1996. FACS-optimized mutants of the green fluorescent protein (GFP). Gene 173: 33-38.

Rizzuto R., Brini M., De Giorgi F., Rossi R., Heim R., Tsien R.Y., and Pozzan T. 1996. Double labelling of the subcellular structures with organelle-targeted GFP mutants in vivo. Curr.Biol. 6:183-188.

Chalfie M, Tu Y., Euskirchen G., Ward W.W., Prasher D.C. 1994. Green Fluorescent Protein as a Marker for Gene Expression. Science 263: 802-805.

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Related Products
00-4222 Flow Cytometry Staining Buffer
50-4321 Rat IgG2a K Isotype Control eFluor® 660 (eBR2a)

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