

Catalog #: T028

Aliases

GFP; yfp; Green fluorescent protein

Background

The GFP (Green Fluorescent Protein) tag is a 27 kDa fluorescent protein derived from the jellyfish *Aequorea victoria*. It emits bright green light ($\lambda \sim 509$ nm) upon exposure to blue or UV light, enabling real-time visualization of tagged proteins in live or fixed cells without additional substrates. Widely used as a reporter gene, GFP-tagging allows non-invasive tracking of protein localization, expression dynamics, and interactions across diverse organisms (e.g., bacteria, mammalian cells). Its engineered variants (e.g., EGFP, mCherry) offer enhanced brightness, photostability, and spectral versatility for multiplex imaging.

Application Information

Molecular Weight: Predicted, 27 kDa

Clonality: Mouse monoclonal antibody

Clone ID: 25GB7100

Species Reactivity: Recombinant protein

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

Recombinant protein of GFP

Isotype

Mouse IgG1

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, 0.05% BSA and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:10,000

Flow Cytometry (FCM): 1:2,000

Immunocytochemistry (IC): 1:100-1:1,000

SUPPORT

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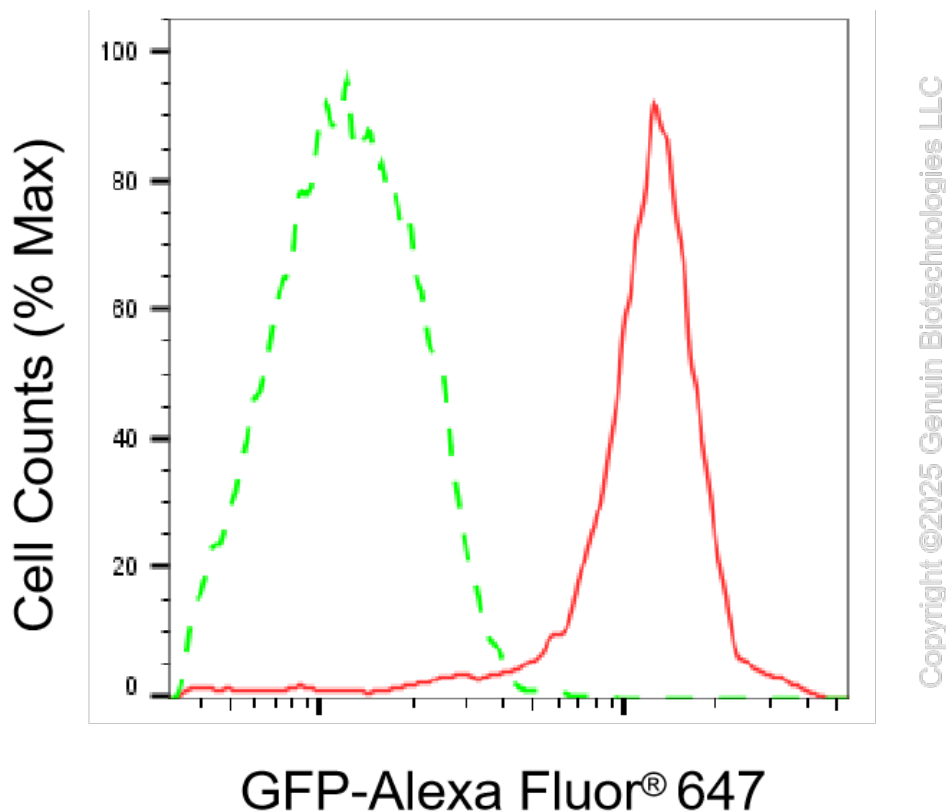
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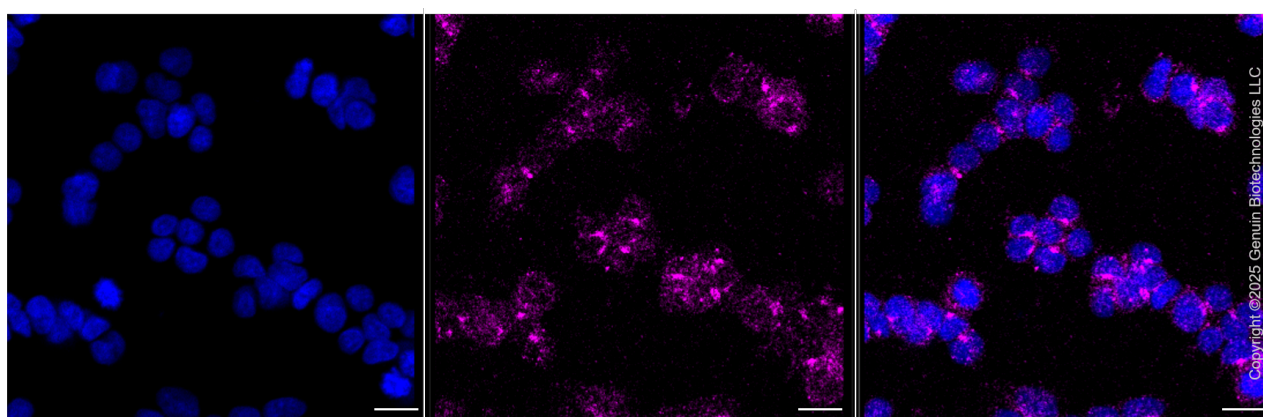
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Note: This product is for research use only.

Validation Data



Flow cytometric analysis of 293T cells transfected with GFP protein using anti-GFP antibody (Cat#T028, 1:2,000). Green, isotype control; red, GFP.



Immunocytochemical staining of 293T cells transfected with GFP protein using anti-GFP antibody (Cat#T028, 1:1,000). Nuclei were stained blue with DAPI; GFP was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 μ m.

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