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AM20840PU-N Monoclonal Antibody to GFP (+CFP) - Aff - Purified

Alternate names: GFP-Tag, Green fluorescent protein

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: The green fluorescent protein (GFP) was originally identified as a protein involved in the bioluminescence of the jellyfish Aequorea victoria. GFP cDNA produces a fluorescent product when expressed in prokaryotic cells, without the need for exogenous substrates or cofactors, making GFP a useful tool for monitoring gene expression and protein localization in vivo. Several GFP mutants have been developed, including EGFP, which fluoresce more intensely than the wild type GFP and have shifted excitation maxima, making them useful for FACS and fluorescence microscopy as well as double-labeling applications. GFP is widely used in expression vectors as a fusion protein tag, allowing expression and monitoring of heterologous proteins fused to GFP.

Uniprot ID: P42212

NCBI: 6100

Host / Isotype: Mouse / IgG1

Clone: GFP. C2

Immunogen: GFP from the *Jellyfish Aequorea* Victoria N-terminal peptide-KLH conjugates.

Format:
State: Liquid purified Ig fraction
Purification: 1-10 ng of purified GFP or GFP fusion proteins (Western blot developed with ECL)
Buffer System: 10mM PBS, PH 7.2
Preservatives: 0.09% Sodium Azide

Applications:
ELISA.
Dot Blot.
Western Blot: 1/1,000.
Immunoprecipitation.
Immunostaining.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Recognizes native and denatured forms of GFP and its variants EGFP, YFP, EYFP, and CFP.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citations:
Purchased from Acris:
1. Botbol Y, Patel B, Macian F. Common γ-chain cytokine signaling is required for macroautophagy induction during CD4(+) T-cell activation. Autophagy. 2015 Oct

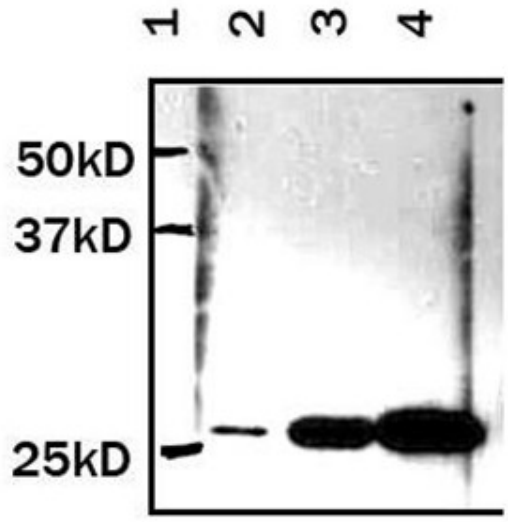
3;11(10):1864-77. doi: 10.1080/15548627.2015.1089374. PubMed PMID: 26391567.

General Readings:

1. Prasher DC, Eckenrode VK, Ward WW, Prendergast FG, Cormier MJ. Primary structure of the Aequorea victoria green-fluorescent protein. Gene. 1992 Feb 15;111(2):229-33. PubMed PMID: 1347277.
2. Chalfie M, Tu Y, Euskirchen G, Ward WW, Prasher DC. Green fluorescent protein as a marker for gene expression. Science. 1994 Feb 11;263(5148):802-5. PubMed PMID: 8303295.

Pictures:

Antibody working Cont: 1/1000 from 1 mg/ ml stock Cont.



Lane 1: Negative Control. Lane 2: 1 µg GFP Fusion Protein Lysate. Lane 3: 10 µg GFP Fusion Protein Lysate.