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Datasheet for ABIN387748
anti-GFP Tag antibody

2 Images

23 Publications

Overview

Quantity:	200 µL
Target:	GFP Tag
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GFP Tag antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Purified His-tagged GFP protein was used to produced this monoclonal antibody.
Clone:	168AT1211
Isotype:	IgG1
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	GFP Tag
Abstract:	GFP Tag Products
Target Type:	Tag
Background:	Green fluorescent protein (GFP), originally isolated from the jellyfish <i>Aequorea victoria</i> , is one of the best visual reporters for monitoring gene expression in vivo and in situ. GFP is a also

Target Details

convenient marker for use in flow cytometry because it eliminates the need to incubate with a secondary reagent (such as dyes or antibodies) for detection. However, anti-GFP antibody is also widely used for co-immunoprecipitation, co-localization or western blotting for the confirmation of specificity when a GFP fusion protein is expressed in cells. Abgent's anti-GFP monoclonal antibody provides a simple solution to detect the expression of a GFP-tagged protein in cells. Because of its ability to spontaneously generate its own fluorophore, the green fluorescent protein (GFP) from the jellyfish *Aequorea victoria* is used extensively as a fluorescent marker in molecular and cell biology. The yellow fluorescent proteins (YFPs) have the longest wavelength emissions of all GFP variants examined to date. This shift in the spectrum is the result of a T203Y substitution (single-letter amino acid code), a mutation rationally designed on the basis of the X-ray structure of GFP S65T. Abgent's anti-GFP monoclonal antibody can detect both GFP and YFP but not BFP (Blue fluorescent protein) by western blotting.

Molecular Weight: 27 k

UniProt: [C5MKY7](#)

Application Details

Application Notes: IF: 1:25. WB: 1:20000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze-thaw cycles.

Storage: 4 °C,-20 °C

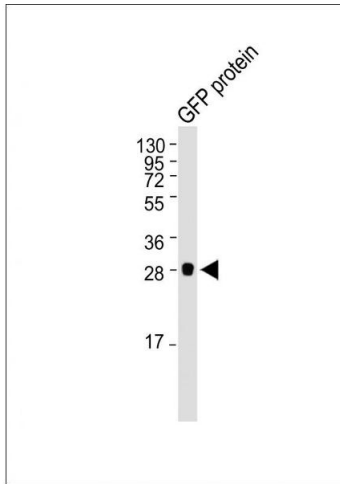
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.

Expiry Date: 6 months

Product cited in: Stegmaier, Wong, Ross, Chow, Peck, Wright, Lessnick, Kung, Golub: "Signature-based small molecule screening identifies cytosine arabinoside as an EWS/FLI modulator in Ewing sarcoma." in: **PLoS medicine**, Vol. 4, Issue 4, pp. e122, (2007) ([PubMed](#)).

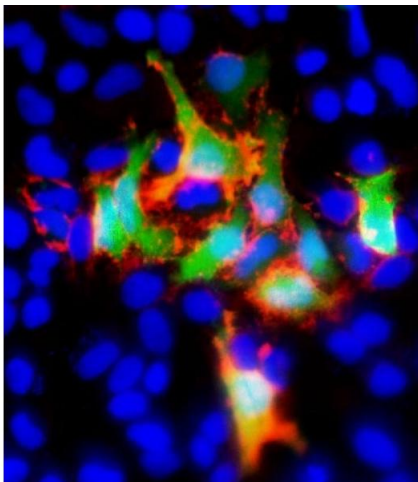
There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-GFP Tag Antibody at dilution + GFP protein whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5 % NFDN/TBST.



Immunofluorescence

Image 2. Immunofluorescent analysis of GFP using either natural fluorescence (green) or an GFP antibody (red) in HeLa (human cervical epithelial adenocarcinoma cell line) cells transfected with GFP recombinant protein. Formalin-fixed cells were permeabilized with 0.1 % Triton X-100 for 10 minutes at room temperature and blocked with 3 % BSA for 30 minutes at room temperature. Cells were probed with an GFP monoclonal antibody (Product (ABIN387748 and ABIN2843187)) at a dilution of 1:25 for 1 hour at 37°C, and incubated with DyLight 555 goat anti-mouse IgG secondary antibody (Product 1511348) at a dilution of 1:200 for 60 minutes at 37 °C. The nuclear counter stain is DAPI (blue).