Datasheet for ABIN387748

anti-GFP Tag antibody

2 Images | 23 Publications

Go to Product page

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 Aequorea victoria, 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-immunipreciapitation, 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

Publications

Product cited in:

Karam, Blanchet, Vivès, Boisguérin, Boudehen, Kremer, Daher: "Mycobacterium abscessus alkyl hydroperoxide reductase C promotes cell invasion by binding to tetraspanin CD81." in: **iScience**, Vol. 26, Issue 2, pp. 106042, (2023) (PubMed).

Cammareri, Rose, Vincent, Wang, Nagano, Libertini, Ridgway, Athineos, Coates, McHugh, Pourreyron, Dayal, Larsson, Weidlich, Spender, Sapkota, Purdie, Proby, Harwood, Leigh, Clevers, Barker, Karlsson et al.: "Inactivation of TGFβ receptors in stem cells drives cutaneous squamous cell carcinoma. ..." in: **Nature communications**, Vol. 7, pp. 12493, (2018) (PubMed).

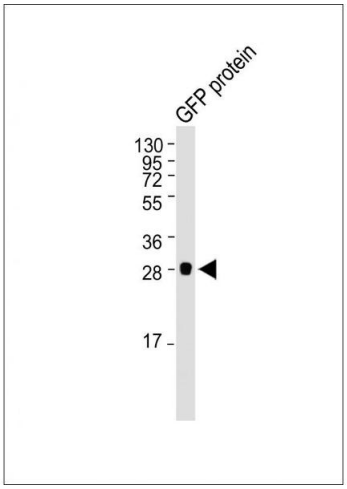
Arumughan, Roske, Barth, Forero, Bravo-Rodriguez, Redel, Kostova, McShane, Opitz, Faelber, Rau, Mielke, Daumke, Selbach, Sanchez-Garcia, Rocks, Panáková, Heinemann, Wanker: " Quantitative interaction mapping reveals an extended UBX domain in ASPL that disrupts functional p97 hexamers." in: **Nature communications**, Vol. 7, pp. 13047, (2018) (PubMed).

Colinot, Garbuz, Bosland, Wang, Rice, Sullivan, Arrizabalaga, Jerde: "The common parasite Toxoplasma gondii induces prostatic inflammation and microglandular hyperplasia in a mouse model." in: **The Prostate**, Vol. 77, Issue 10, pp. 1066-1075, (2017) (PubMed).

Zhao, Hu, Zhang, Jiang, Ma, Li, Peng, Chen: "Dual Roles of Two Isoforms of Autophagy-related Gene ATG10 in HCV-Subgenomic replicon Mediated Autophagy Flux and Innate Immunity." in: **Scientific reports**, Vol. 7, Issue 1, pp. 11250, (2017) (PubMed).

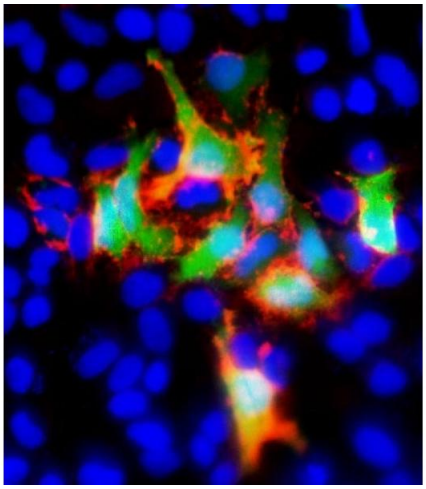
There are more publications referencing this product on: Product page

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 % NFDM/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 37C, 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 DI (blue).

