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Datasheet for ABIN387749

## anti-GFP Tag antibody

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### Overview

Quantity:	0.1 mL
Target:	GFP Tag
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GFP Tag antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	Purified His-tagged GFP protein was used to produced this monoclonal antibody.
Clone:	168AT1211-269-64
Isotype:	IgG
Purification:	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

### Target Details

Target:	GFP Tag
Abstract:	<a href="#">GFP Tag Products</a>
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

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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.

## Application Details

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Application Notes: WB: 1:100~500. WB: 1:100~500

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: Mouse monoclonal antibody supplied in crude ascites 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 to prevent freeze-thaw cycles.

Expiry Date: 6 months

## Publications

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Product cited in: Yang, Zhao, Mei, Jiang, Geng, Li, Yao, Liu, Kong, Cao: "HMGA2 plays an important role in Cr (VI)-

induced autophagy." in: **International journal of cancer**, Vol. 141, Issue 5, pp. 986-997, (2017) ([PubMed](#)).

Chen, Cao, Zhou, Liu, Che, Mizumura, Li, Choi, Shen: "Interaction of caveolin-1 with ATG12-ATG5 system suppresses autophagy in lung epithelial cells." in: **American journal of physiology. Lung cellular and molecular physiology**, Vol. 306, Issue 11, pp. L1016-25, (2014) ([PubMed](#)).

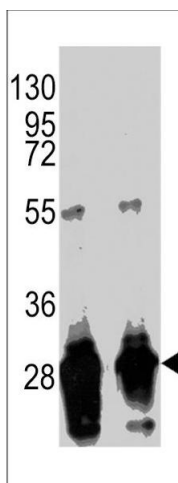
Sanchez, Penforinis, Oskowitz, Boonjindasup, Cai, Dhule, Rowan, Kelekar, Krause, Pochampally: "Activation of autophagy in mesenchymal stem cells provides tumor stromal support." in: **Carcinogenesis**, Vol. 32, Issue 7, pp. 964-72, (2011) ([PubMed](#)).

Yee, Wilkinson, James, Ryan, Vousden: "PUMA- and Bax-induced autophagy contributes to apoptosis." in: **Cell death and differentiation**, Vol. 16, Issue 8, pp. 1135-45, (2009) ([PubMed](#)).

Harada, Willison, Sakakibara, Miyamoto, Fujita, Taniguchi: "Absence of the type I IFN system in EC cells: transcriptional activator (IRF-1) and repressor (IRF-2) genes are developmentally regulated." in: **Cell**, Vol. 63, Issue 2, pp. 303-12, (1990) ([PubMed](#)).

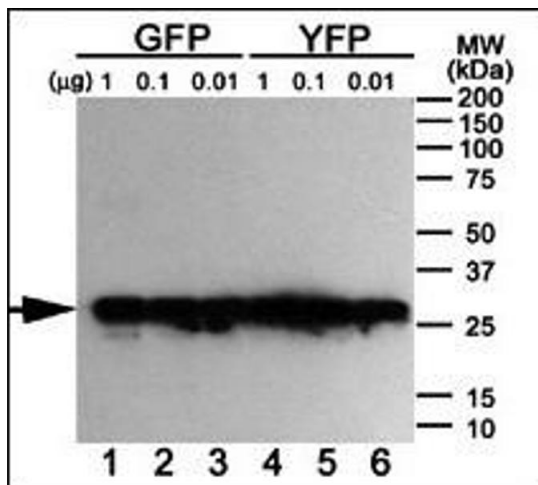
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## Images



### Western Blotting

**Image 1.** Western blot analysis of anti-GFP Tag Antibody (Ascites) (CA071114E) in GFP recombinant protein. GFP recombinant protein (arrow) was detected using the purified Mab.



### Western Blotting

**Image 2.** Western blot analysis of anti-GFP Mab ABIN387749 using purified GFP, YFP and BFP proteins expressed in bacteria: Both GFP (Lanes 1-3) and YFP (Lanes 4-6) but not BFP (data not shown) were detected using the purified Mab.