Datasheet for ABIN3020571

anti-GFP antibody (AA 1-238)

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Overview

Quantity:	100 µL
Target:	GFP
Binding Specificity:	AA 1-238
Reactivity:	Aequorea victoria
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GFP antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant protein containing a sequence corresponding to amino acids 1-238 of GFP protein.
Sequence:	MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG KLTLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HDFFKSAMPE GYVQERTIFF KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN IEDGSVQLAD HYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMVL LEFVTAAGIT HGMDELYK
Isotype:	IgG
Characteristics:	Tag Antibodies
Purification:	Affinity purification

Target Details

Target:	GFP
Alternative Name:	GFP (GFP Products)
Background:	The green fluorescent protein (GFP) is a protein composed of 238 amino acid residues (26.9 kDa) that exhibits bright green fluorescence when exposed to light in the blue to ultraviolet range. Although many other marine organisms have similar green fluorescent proteins, GFP traditionally refers to the protein first isolated from the jellyfish Aequorea victoria. The GFP from A. victoria has a major excitation peak at a wavelength of 395 nm and a minor one at 475 nm. Its emission peak is at 509 nm, which is in the lower green portion of the visible spectrum. The GFP from the sea pansy (Renilla reniformis) has a single major excitation peak at 498 nm. GFP makes for an excellent tool in many forms of biology due to its ability to form internal chromophore without requiring any accessory cofactors, gene products, or enzymes / substrates other than molecular oxygen.In cell and molecular biology, the GFP gene is frequently used as a reporter of expression. It has been used in modified forms to make biosensors, and many animals have been created that express GFP, which demonstrates a proof of concept that a gene can be expressed throughout a given organism, in selected organs, or in cells of interest. GFP can be introduced into animals or other species through transgenic techniques, and maintained in their genome and that of their offspring. To date, GFP has been expressed in many species, including bacteria, yeasts, fungi, fish and mammals, including in human cells.,GFP,GFP tag,GFP-tag,GFP
Molecular Weight:	27 kDa
UniProt:	P42212

Application Details

Application Notes:	WB,1:2000 - 1:3000,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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

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Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:

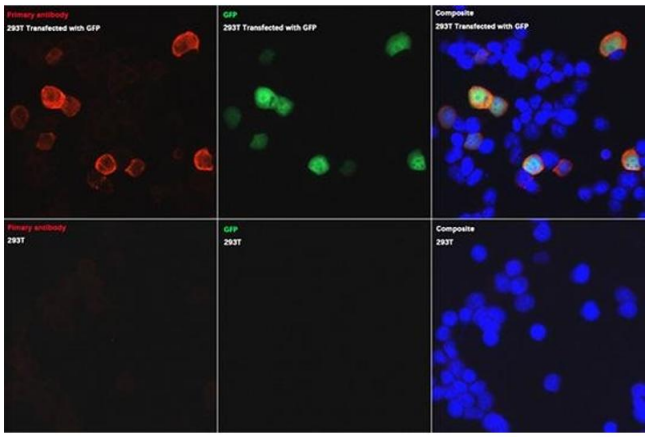
Wang, Long, Chen, Fan, Wang, Li, Wu, Chen: "Inhibition of H3K4 demethylation induces autophagy in cancer cell lines." in: **Biochimica et biophysica acta. Molecular cell research**, Vol. 1864, Issue 12, pp. 2428-2437, (2018) (PubMed).

Li, Lu, Li, Yuan, Fu: "A ROP2-RIC1 pathway fine-tunes microtubule reorganization for salt tolerance in Arabidopsis." in: **Plant, cell & environment**, Vol. 40, Issue 7, pp. 1127-1142, (2017) (PubMed).

Zheng, Zhou, Zhang, Thu, Xie, Lu, Pang, Xue, Xu, Chen, Chen, Li, Xu: "Anhydroicaritin improves diet-induced obesity and hyperlipidemia and alleviates insulin resistance by suppressing SREBPs activation." in: **Biochemical pharmacology**, Vol. 122, pp. 42-61, (2017) (PubMed).

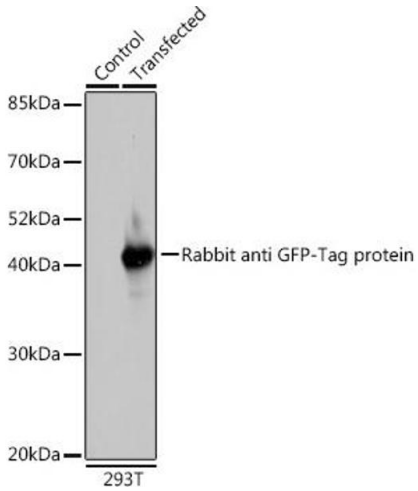
Zhao, Jing, Chen, Liu, Su, Liu, Gao, Yi, Wen, Ma, Tu, Zou, Fu, Shen: "Tribenuron-Methyl Induces Male Sterility through Anther-Specific Inhibition of Acetolactate Synthase Leading to Autophagic Cell Death." in: **Molecular plant**, Vol. 8, Issue 12, pp. 1710-24, (2016) (PubMed).

Zhu, Wang, Ju, Zhu, Yao, Wang, Wu, Li: "WDR82 Negatively Regulates Cellular Antiviral Response by Mediating TRAF3 Polyubiquitination in Multiple Cell Lines." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 195, Issue 11, pp. 5358-66, (2016) (PubMed).



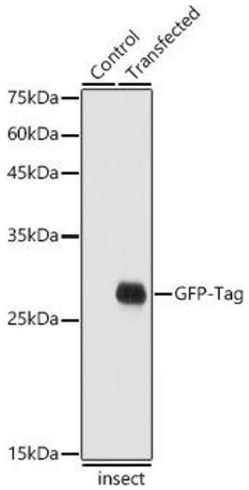
Immunofluorescence

Image 1. Immunofluorescence analysis of 293T and 293T-GFP cells using Rabbit anti GFP-Tag pAb (ABIN3020570, ABIN3020571, ABIN3020572 and ABIN1512944) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of normal 293T cells and 293T transfected with GFP-tagged fusion protein,using GFP antibody (ABIN3020570, ABIN3020571, ABIN3020572 and ABIN1512944) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 10s.



Western Blotting

Image 3. Western blot analysis of extracts of normal Eukaryotic expression of GFP and Eukaryotic expression of GFP transfected with GFP Protein, using GFP antibody (ABIN3020570, ABIN3020571, ABIN3020572 and ABIN1512944) at 1:20000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 1s.