

Rev05
Update: Nov,03,2023

DATASHEET

cGFP-tag Antibody, mAb, Mouse

Cat. No.: A00185

Overview

Specificity	The antibody reacts with various forms of GFP including eGFP, OFP, and GFPuv.
Host Species	Mouse
Immunogen	Purified recombinant cGFP fusion protein
Conjugate	Unconjugated

Applications

The investigator must determine the ideal working concentration for each specific application. We have not yet determined the suitability of this antibody for applications other than those listed below. The ideal working concentration must take into account such factors as secondary antibody affinity, antigen concentration, sensitivity of the detection method, temperature, and length of incubations.

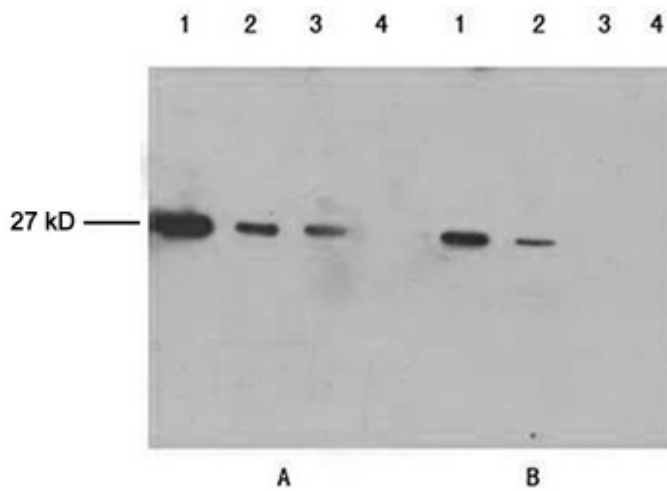
Application	Recommended Usage
ELISA	0.1-1.0 µg/ml
Western Blot	1.0-2.0 µg/ml
Western Blot	1:100-1:1,000

Properties

Form	Lyophilized
Storage Buffer	Lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 1 mg/ml.
Storage Instructions	The lyophilized product remains stable for up to 1 year at -20 °C from the date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.
Purification	Protein G affinity column

Isotype	Mouse IgG2b
Clonality	Monoclonal
Clone ID	5E5G11

Examples



Lane 1-3: 100 ng, 25 ng, 10 ng GFP fusion protein

Lane 4: Negative control

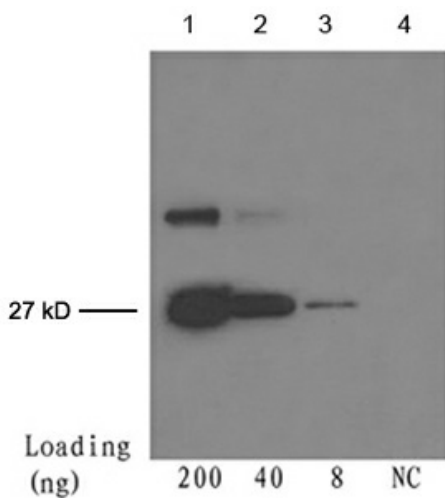
Primary antibody:

A. 1 µg/ml Mouse Anti-cGFP-tag Monoclonal Antibody (GenScript, A00185)

B. 1 µg/ml Mouse Anti-cGFP-tag Monoclonal Antibody (X Company)

Secondary antibody: Goat Anti-Mouse IgG (H&L) [HRP]

Polyclonal Antibody (GenScript, A00160, 1:50,000)

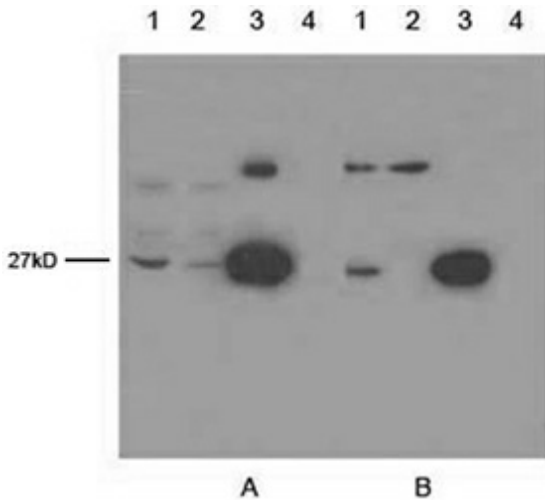


Lane 1-3: 200 ng, 40 ng, 8 ng GFP fusion protein

Detection antibody: Mouse Anti-cGFP-tag Monoclonal Antibody (GenScript, A00185)

The Western blot was performed using One-Step Western™ Basic Kit (GenScript, L00205)

with 4 µg of the antibody added to 4 ml WB solution.



Lane 1: OFP transfecting 293 cell lysate
 Lane 2: EGFP transfecting 293 cell lysate
 Lane 3: 5 ng GFPuv protein
 Lane 4: Negative 293 cell lysate

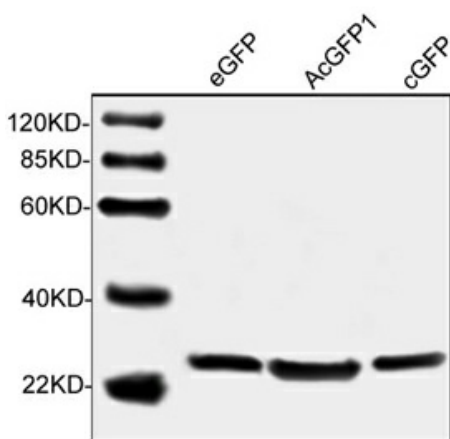
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Specificity analysis of THE™ GFP Antibody, mAb, Mouse (GenScript, A00185) by Western blot

using a variety of variants of GFP protein such as eGFP, cGFP and AcGFP1.

The signal was developed with IRDye™ 800 Conjugated Goat Anti-mouse IgG.

Background

Target Background : The coral green fluorescent protein (cGFP) from vector pRNATin-H1.2/Neo (GenScript, SD1223) is a versatile marker for monitoring physiological processes, visualizing protein localization, and detecting transgenic expression. Mouse Anti-cGFP-tag Monoclonal Antibody can be used to detect cGFP fusion protein in Western blot analyses.

Synonyms : Mouse Anti-cGFP-tag mAb; Green Fluorescent Protein

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

生产商：南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China