Anti-GFP Antibody [2-D8]

EM30501

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Species independent
Applications:	WB, IF-Cell, ELISA, FC, IP
Molecular Wt:	Predicted band size: 27 kDa
Clone number:	2-D8

Description: Green fluorescence protein (GFP) is derived from the jellyfish Aequorea victoria, which emits green light (emission peak at a wavelength of 509 nm) when excited by blue light (excitation peak at a wavelength of 395 nm). GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. It has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without chemical staining.

Immunogen: Recombinant full length protein of Aequorea victoria GFP.

Positive control: Transfected K562 with GFP.

Database links: SwissProt: P42212 Aequorea victoria

Recommended Dilutions:

WB	1:2,000
IF-Cell	1:200
IP	2-5 μg/ml.

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

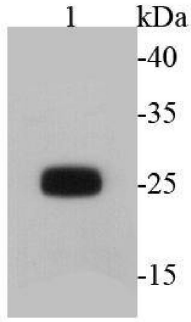

Fig1: Western blot analysis of GFP on transfected K562 with GFP using anti-GFP antibody at 1/2000 dilution.

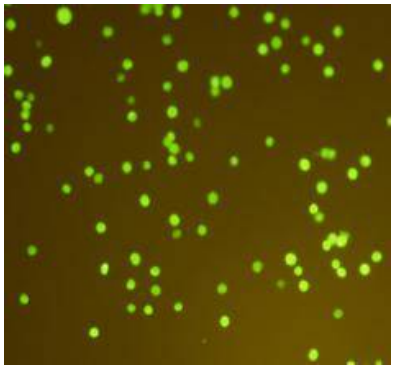

Fig2: ICC staining GFP in transfected K562 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

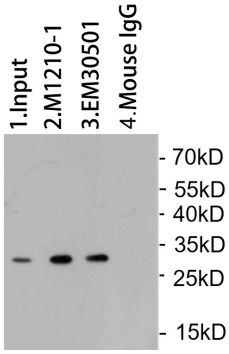

Fig3: GFP tag was immunoprecipitated in 5µg GFP Tag fusion protein lysate with EM30501 at 2 µg/20 µl agarose. Western blot was performed from the immunoprecipitate using ET1604-25 at 1/1000 dilution. Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 60 mins at room temperature.

Lane 1: GFP Tag fusion protein lysate (input).
Lane 2: M1210-1 IP in GFP Tag fusion protein lysate.
Lane 3: EM30501 IP in GFP Tag fusion protein lysate.
Lane 4: Mouse IgG instead of EM30501 in GFP Tag fusion protein lysate.

Blocking/Dilution buffer: 5% NFDM/TBST

Background References

1. "Primary structure of the Aequorea victoria green-fluorescent protein."Prasher D.C., Eckenrode V.K., Ward W.W., Prendergast F.G., Cormier M.J.Gene 111:229-233(1992)
2. "A molecular thermometer based on fluorescent protein blinking."Wong F.H., Banks D.S., Abu-Arish A., Fradin C.J. Am. Chem. Soc. 129:10302-10303(2007)