



## GFP Mouse Monoclonal Antibody

E10-20144

**Background:** GFP (Green fluorescence protein) is a 27 kDa protein derived from the jellyfish *Aequorea victoria*, which emits green light when excited by blue light. GFP cDNA produces a fluorescent product when expressed in prokaryotic cells, without the need for exogenous substrates or cofactors. GFP has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining. Other applications of GFP include assessment of protein protein interactions through the yeast two hybrid system and measurement of distance between proteins through fluorescence energy transfer (FRET) protocols. GFP technology has considerably contributed to a greater understanding of cellular physiology.

**Catalog Number:** E10-20144

**Amount:** 100µg/100µl

**Clone Number:** 4B10B2

**Species:** Mouse IgG2a

**MW:** 27kDa

**Immunogen:** Purified recombinant fragment of GFP expressed in *E. Coli*.

**Storage:** Store at 4 °C for long term storage, store at -20 °C for short term storage.

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Tested Applications:** WB, IF,FC,ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

**Application notes:** WB.1/500 - 1/2000 ,IF.1/200 - 1/1000,FC.1/200 - 1/400,ELISA. Propose dilution 1/10000.

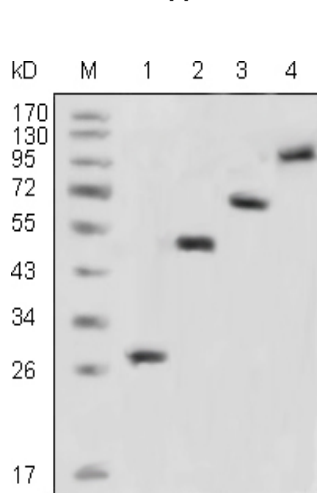


Figure 1. Western blot analysis using GFP mouse mAb against recombinant GFP fusion protein (1) and various recombinant fusion protein with GFP tag (2, 3, 4).

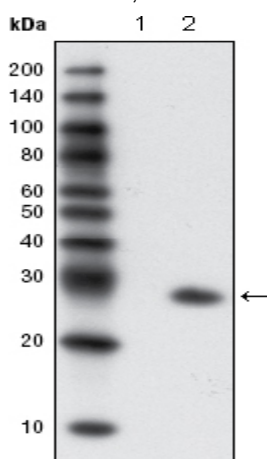


Figure 2. Western blot analysis using GFP mouse mAb against extracts from HCC827 cells, untransfected (1) and transfected with GFP (2).

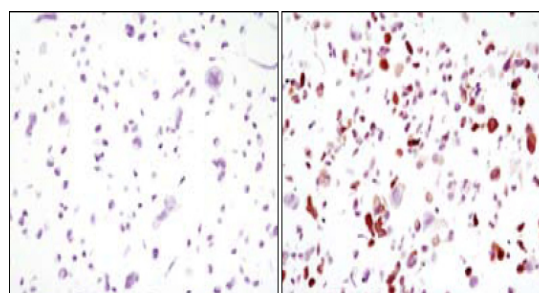


Figure 3. Immunocytochemistry analysis of HCC827 cells, untransfected (left) or transfected with GFP (right) using GFP mouse mAb.

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