BT LAB
Bioassay Technology Laboratory
Optimize Your Research

GFP Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4851
Host	Mouse
Isotype	Mouse IgG2a
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of GFP expressed in E. Coli.
Mol wt	27kDa
Species reactivity	Others
Clonality	Monoclonal
Recommended application	WB,IP,ICC
Concentration	N/A
Full name	N/A
Synonyms	N/A

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 technnology has considerably contributed to a greater understanding of cellular physiology.

Recommended Dilution

WB: 1:500 - 1:2000

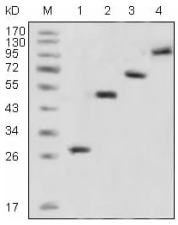
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

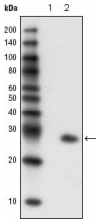
ELISA: 1:10000

Not yet tested in other applications.

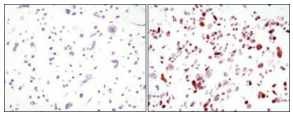
Images



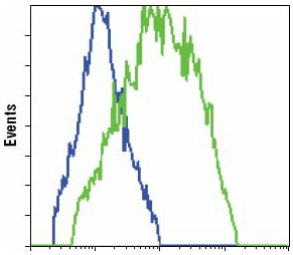
Western blot analysis using GFP mouse mAb against recombinant GFP fusion protein (1) and various recombinant fusion protein with GFP tag (2, 3, 4).



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



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



Flow cytometric analysis of HCC827 cells, untransfected (blue) or transfected with GFP (green), using GFP mouse mAb .

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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