

DATA SHEET

Lanleys™ Biotechnologies Laboratory GFP (1E3)

CATALOG

Mab1023

BACKGROUND

Green fluorescent protein (GFP) was first isolated from jellyfish *Aequorea victoria*, and has been used as a reporter or a tag of fusion protein for expression analysis in molecular and cell biology. Different mutants of GFP have been engineered to produce varieties of colors such as blue (BFP), cyan (CFP) and yellow (YFP). These color mutants provide powerful tools for fluorescence microscopy studies as they are less harmful in living cells, and *in vivo* imaging as they are heritable and can be expressed throughout an animal. In the presence of long-wave UV light, GFP emits green light, which has a major excitation peak at a wavelength of 395 nm. Studies have shown that GFP is an exceptionally stable protein in a wide range of pH and temperature.

SOURCE

This is a mouse monoclonal antibody raised against the full-length GFP protein.

GENE SYMBOL

GFP (*A. victoria*)

ISOTYPE

IgG_{2b}

PHYSICAL FORM

Freeze-dried powder from 1 × PBS solution

SPECIFICITY

This antibody detects GFP and its fusion proteins. Other color mutants have not been tested.

MOLECULAR WEIGHT

27 kDa (GFP)

APPLICATIONS

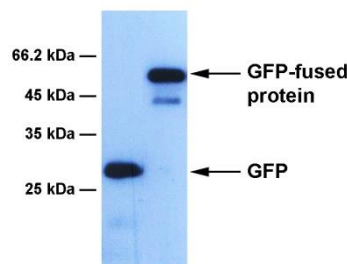
Western blotting (WB, dilution range: 1:1,000 – 10,000). Other applications have not been tested.

STORAGE

Store freeze-dried powder at 2 - 8°C upon arrival. When ready to use, rehydrate with 0.1 ml dH₂O and centrifuge if not clear. For long-term storage, make aliquots and keep them at -20°C or below. Avoid repeated freezing and thawing cycles.

DATA

>> Western blot: HT-1080 cell extracts expressing GFP and its fusion protein prepared in 1% Triton-X lysis buffer.



IMPORTANT NOTE

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

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