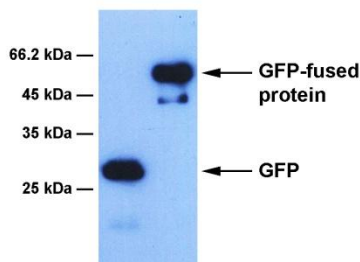


Data



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

Product Information

Gene Symbol:	GFP (<i>A. victoria</i>)
Molecular Weight:	27 kDa (GFP)
Source:	This is a mouse monoclonal antibody raised against the full-length GFP protein.
Clone #:	2D4
Isotype:	IgG ₁
Specificity:	This antibody detects GFP and its fusion proteins. Other color mutants have not been tested in house.
Physical Form:	Freeze-dried powder from 1 × PBS solution, or cell culture media with 0.02% NaN ₃
Application:	<ul style="list-style-type: none"> • Western blotting (WB, dilution range: 1:1,000 – 10,000) • Other applications have not been tested in house.
Storage:	Store freeze-dried powder at 4°C upon arrival. When ready to use, rehydrate with 0.1 ml or desired volume of distilled H ₂ O 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.

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.

Important Note

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