

DESCRIPTION

Specificity	Detects GFPuv in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 454518
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant GFPuv Ala2-Tyr238 Accession # P42212
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The green fluorescent protein (GFP), originally discovered in the jellyfish, *Aequorea victoria*, is composed of 238 amino acids and has a molecular weight of 27 kDa. GFP is in the shape of a cylinder, comprising 11 strands of beta-sheet outside, a single alpha helical strand containing the chromophore running through the center, and short helical segments on the ends. GFP transduces the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. GFP has been widely used as a tracer in various disciplines of biology research, such as fluorescence microscopy, reporter gene expression, and *in vivo* imaging. Laboratory mutation of GFP generated the widely used analog GFPuv, which has brighter fluorescence and more desirable expression properties.

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