



Product Data Sheet

GFP-Tag Monoclonal Antibody

Catalog Number: ORF.GFPMAB-50

Product Details	
Product Name	GFP-Tag Monoclonal Antibody
Catalog Number	ORF.GFPMAB-50
Size	50 µL
Concentration	1 mg/mL
Clonality	Monoclonal
Source	Mouse
Isotype	IgG
Purification	The antibody was purified by immunogen affinity chromatography.

Product Description	Product Image
Green Fluorescent Protein (GFP) is a naturally occurring protein from the jellyfish <i>Aequorea victoria</i> that emits bright green light during bioluminescence. Widely used as a reporter and protein tag in both eukaryotic and prokaryotic systems, GFP enables direct visualization of gene expression, protein localization, and dynamic cellular processes in living cells and organisms. As a 27 kDa monomeric protein, GFP autocatalytically forms its fluorescent chromophore without the need for additional proteins, substrates, or cofactors. The wild-type protein absorbs blue light (peak at ~395 nm) and emits green light (peak at ~508 nm), with fluorescence that is highly stable, species-independent, and suitable for a variety of imaging applications. GFP fusion tagging allows researchers to: • Track protein localization and trafficking in live cells. • Study subcellular compartment dynamics. • Monitor gene expression patterns. • Investigate protein-protein interactions (e.g., yeast two-hybrid system). • Measure molecular proximity via Förster Resonance Energy Transfer (FRET) assays.	

For research applications only. Not for diagnostic or therapeutic use.

This monoclonal antibody specifically recognizes the GFP epitope, providing sensitive and specific detection in applications such as Western blotting, immunoprecipitation, immunofluorescence, and ELISA. It is suitable for detecting both native and denatured GFP and its common variants, ensuring consistent performance in research workflows.

Product Specifications and Product Specific Information

Applications	WB: 1:2000 – 1:5000 IP: 1:100 – 1:200
Reactivity	N/A
Specificity	Recognizes RFP, YFP, CFP
Immunogen	Recombinant protein corresponding to GFP-tag
Description	Mouse monoclonal antibody to GFP-tag
Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Storage and Stability

	Temperature	Storage Time
Short Term	4°C	1 month
Long Term	-20°C	12 months
Avoid repeated freeze-thaw cycles.		

Product Data

kDa
200
140
100
80
60
50
40
30
20



Immunoprecipitation of GFP-tagged protein from HEK293T cells transfected with vector overexpressing GFP tag using Anti-GFP-tag antibody.

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