

FT-37151B



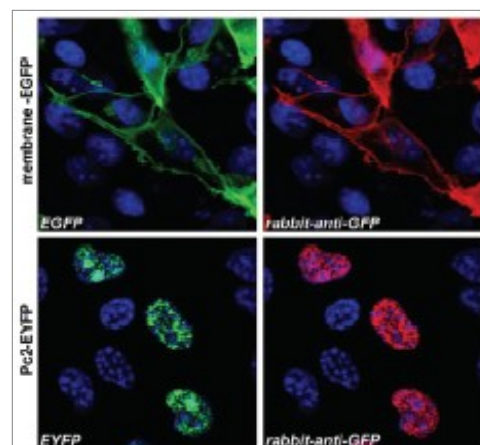
## Anti-GFP

### Product Information

<b>Name</b>	Anti-GFP, rabbit IgG	
<b>Catalog Number</b>	FP-37151B	100 µl, 1mg/ml
<b>Immunogen</b>	EGFP, a native full-length protein	
<b>Format</b>	This antibody is supplied as liquid, Protein A affinity purified (> 95% by SDS-PAGE) IgG fraction in Phosphate buffered saline with 15 mM sodium azide, pH 7.4	
<b>Applications</b>	Immunoprecipitation (IP) : 10-20 µg/sample	
	Immunocytochemistry (ICC/IHC) : 1-3µg/ml	
	Western Blot (WB) : 0.5-1.5 µg/ml	
	Positive control: transfected cells	
	<i>Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the use.</i>	
<b>Storage:</b>	+4°C (or aliquots at -20°C for long term)	AVOID FREEZING/THAWING CYCLE

#### Specificity

Green fluorescence protein (GFP) is a 27 KDa protein derived from the bioluminescent jellyfish *Aequorea victoria*, emitting green light ( $\lambda=509$  nm) when excited (excitation by Blue or UV light, absorption peak  $\lambda=395$  nm). GFP is a useful tool in cell biology research, as its intrinsic fluorescence can be visualized in living cells. Light-stimulated GFP fluorescence is species-independent and a fluorescence has been reported from many different types of GFP-expressing hosts, including microbes, invertebrates, vertebrates and plants. No exogenous substrates and cofactors are required for the fluorescence of GFP, since GFP autocatalytically forms a fluorescent pigment from natural amino acids present in the nascent protein. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP is widely used as a reporter (tag) for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without any further staining. Other applications of GFP include measurement of distance between proteins through fluorescence energy transfer (FRET) protocols. To increase a fluorescence intensity of GFP, chromophore mutations have been created. The Enhanced GFP has a fluorescence 35 times more intense than the wt-GFP. Mutagenesis of GFP has produced also many mutants (e.g. Yellow Fluorescent Protein, Cyan Fluorescent Protein) with



**FIG.1:** Confocal microscopy images of COS-7 cells transfected with expression constructs encoding membrane-tethered EGFP (membrane-EGFP; top) or nuclear Polycomb 2-EYFP fusion protein (Pc2-EYFP; bottom). The natural fluorescence of the produced proteins is shown in the green channel (left), the anti-GFP antibody signal was detected in the red channel (right). The system was carefully tested for overlap of these two optical channels and images were scanned separately in sequential scanning mode. The blue nuclear stain is also shown

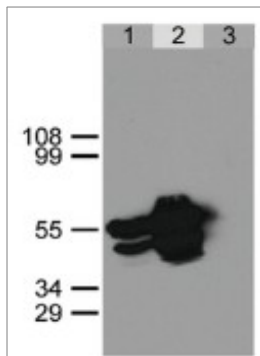
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warying spectral properties. Antibodies raised against full-length GFP variants should also detect other variants of the protein. The antibody reacts specifically with GFP, EGFP, EYFP and relevant fusion proteins in all species.



**FIG.2:** Immunoprecipitation of GFP-NLS from HEK293 cells using anti-GFP antibody. HEK293 cells were transfected with expression construct encoding GFP-NLS protein. Twenty hours post transfection cells were lysed in non-denaturing conditions. Aliquots of cell lysate were immuno-precipitated using rabbit anti-GFP antibody (SP3005P, lane 2) or a pre-immune rabbit serum (lane 3). Immunoprecipitates together with a sample of the cell lysate (lane 1) were separated on SDS-PAGE polyacrylamide gel and immunoblotted with the anti-GFP antibody. The positions of molecular weight markers in kDa are indicated at the left.

### Related products

- *In vitro* Bacterial Split GFP Fold-N-Glow Solubility Assay, [JV4960](#)
- SuperFolder GFP Expression Plasmid, [JV5020](#)

## Ordering information

Catalog size quantities and prices may be found at <http://www.fluoprobes.com>  
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