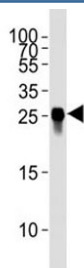


## GFP Antibody / YFP [clone 168AT1211] (F52058)

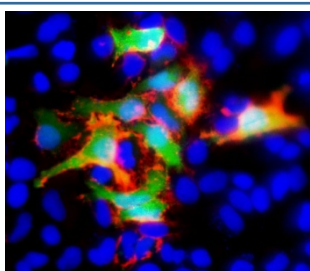
Catalog No.	Formulation	Size
F52058-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F52058-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	GFP / YFP
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1
<b>Clone Name</b>	168AT1211
<b>Purity</b>	Purified
<b>Applications</b>	Western Blot : 1:4000 Immunofluorescence/Immunocytochemistry : 1:25
<b>Limitations</b>	This GFP antibody is available for research use only.



Western blot analysis of tagged protein lysate using GFP antibody at 1:4000.



IF/ICC staining of GFP-transfected FFPE human HeLa cells with GFP antibody (red), DAPI nuclear stain (blue) and green natural fluorescence. HIER: steam section in pH6 citrate buffer for 20 min.

## Description

Green fluorescent protein is one of the best visual reporters for monitoring gene expression in vivo and in situ. It is also a convenient marker for use in flow cytometry because it eliminates the need to incubate with a secondary reagent (such as dyes or antibodies) for detection. However, anti-GFP antibody is also widely used for co-immunoprecipitation, co-localization or western blotting for the confirmation of specificity when a GFP fusion protein is expressed in cells.

NSJBio's anti-GFP antibody provides a simple solution to detect the expression of a GFP-tagged protein in cells. Because of its ability to spontaneously generate its own fluorophore, the green fluorescent protein from the jellyfish *Aequorea victoria* is used extensively as a fluorescent marker in molecular and cell biology. The yellow fluorescent proteins (YFPs) have the longest wavelength emissions of all GFP variants examined to date. This shift in the spectrum is the result of a T203Y substitution (single-letter amino acid code), a mutation rationally designed on the basis of the X-ray structure of GFP S65T. NSJBio's anti-GFP antibody can detect both GFP and YFP but not BFP (Blue fluorescent protein) by western blotting.

## Application Notes

Titration of the GFP antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Purified His-tagged protein was used to produce this monoclonal YFP / GFP antibody.

## Storage

Aliquot the GFP antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.