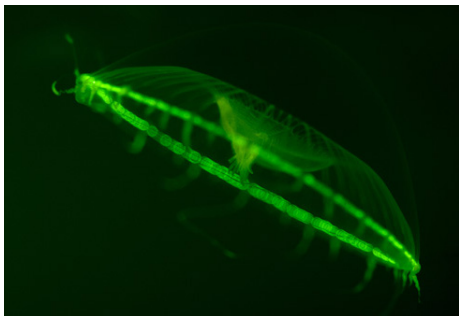
High Quality Green Fluorescent Protein (GFP) Antibodies

Green Fluorescent Protein (GFP) is a 27kD protein derived from the *Aequorea victoria* (*A. victoria*) jellyfish. It is a naturally fluorescent protein which has revolutionised life science and has been used to study proteins in a wide range of applications.

GFP has been used extensively to monitor gene expression; to localise proteins at the cellular and sub-cellular level; to track metastatic cells and as a tag to identify proteins *in vitro*.



A. victoria is a bioluminescent jellyfish, or hydromedusa, found off the west coast of North America.

The enormous interest in GFP as a protein marker has given rise to the development of polyclonal and monoclonal antibodies against GFP, used for the immunolocalisation and immunoblotting of GFP-fused proteins in a variety of applications.

Since its discovery, many variants of GFP have been engineered making antibodies recognising a wide range of these variants an important, and useful, scientific tool for use alongside GFP-fused proteins.

Nordic-MUbio is pleased to announce the release of a new range of products directed against the native form of GFP.

Our new range of anti-GFP antibodies bring a number of advantages over antibodies produced against recombinant, or variant, forms of GFP.

This includes the ability to detect GFP produced from a wide range of different sources, including native, recombinant, and a number of different mutants, *without* suffering from high levels of non-specific binding/background.

Part of the reason many anti-recombinant GFP antibodies suffer from high background issues is due to contamination of an innoculum with other *E.coli* components, leading to increased non-specific binding.

Our products were tested for cross-reactivity to a wide range of antigens, including many derived from *E.coli*, and demonstrated no cross-reactivity.

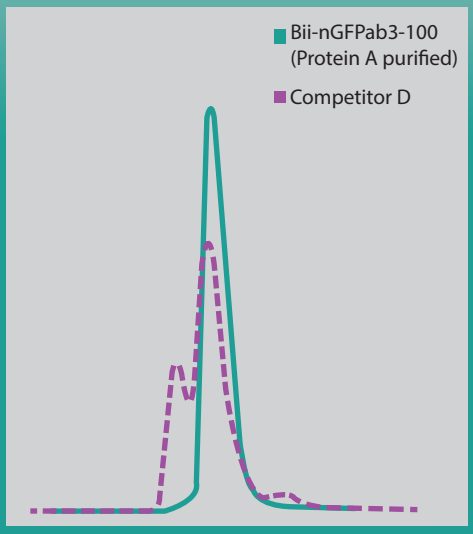
Catalogue Number	Description	Format	Unit Size
Bii-nGFPab2-100	Rabbit anti-GFP (native)	Ammonium Sulfate fraction	0.1 mg
Bii-nGFPab3-100	Rabbit anti-GFP (native)	Protein A Purified	0.1 mg
Bii-nGFPab4-100	Rabbit anti-GFP (native)	Affinity Purified	0.1 mg
Bii-nGFPab4-PO	Rabbit anti-GFP (native):PO	Soyabean Peroxidase Conjugate	0.1 ml
Bii-nGFPabC1-100	Chicken anti-GFP (native)	Ammonium Sulfate fraction	0.1 mg
Bii-rGFP-100	Recombinant Green Fluorescent Protein (wild type)	Recombinant Protein	0.1 mg

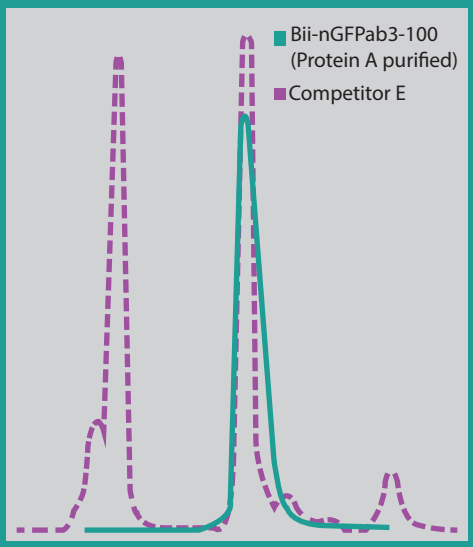
Nordic MUbio

Find **more** at nordicmubio.com

How do we know our GFP products are the highest quality?

Example Size Exclusion Chromatography (HPLC) Results



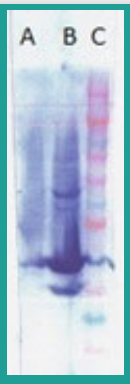


The HPLC analyses of the Nordic-MUbio affinity purified antibodies show just a single peak, illustrating their purity. The competitor antibodies with multiple peaks have contaminants, such as serum albumin, which can affect the results of e.g. Western blots or ELISAs.

To ensure Nordic-MUbio's new GFP antibody range is of the highest quality a number of comparison experiments were run with the best-selling antibodies from other suppliers against recombinant GFP, assessing purity, specificity, and titre of the antibodies.

This page presents a number of the findings from these anlayses.

Competitor A



Competitor B

Nordic-MUbio Native GFP antibody

Western blot Anlaysis

The gels in these images have been loaded with E.coli control, not expressing GFP (lane A), E.coli expressing GFP (lane B), and molecular weight standards (lane C).

These images show intact GFP (main band at 27 kDa), with some high and low mol. weight bands related to GFP present in all. The antisera from competitors A and B show more background reactivity in the E. coli control (lane A).

Anti-GFP Ab' source	HPLC Purity	SDS Purity	Western Specificity
Native GFP Antibody	Clean	Clean	Clean
Competitor A	Contaminants	Contaminants	Some Background
Competitor B	Clean	Clean	High Background
Competitor C	Multiple peaks	Slight Contaminants	n/a
Competitor D	Many peaks (contains BSA)	Not run	n/a
Competitor E	Multiple peaks	Contaminants	n/a
Competitor F	Multiple peaks	Contaminants	n/a
Competitor G	Multiple peaks	Clean	n/a

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