


Product datasheet

HRP Anti-GFP antibody ab6663

[42 References](#) [1 Image](#)

Overview

Product name	HRP Anti-GFP antibody
Description	HRP Goat polyclonal to GFP
Host species	Goat
Conjugation	HRP
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Species independent
Immunogen	Recombinant full length protein corresponding to GFP aa 1-246. Sequence: MSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATY GKLTLLKFICTT GKLPVPWPTL VTTFSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIF FKDDGNYKTRA EVKFEGDTLV NRIELKGIDFKEDGNILGHKLEYNYNSHNVYIMADKQKNGIK VNFKIRHN IEDGSVQLAD HYQQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMYL LEFVTAAGIT HGMDLEYK Database link: P42212  Run BLAST with  Run BLAST with
Positive control	GFP
General notes	<p>Designed to detect GFP and its variants in ELISA (sandwich or capture), immunoblotting and immunoprecipitation Peroxidase conjugated anti-GFP assayed by immunoblot shows a 42 kDa band when reacted with GFP on a western blot.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 6.50 Preservative: 0.01% Gentamicin sulphate Constituents: 0.42% Tripotassium orthophosphate, 0.87% Sodium chloride, 1% BSA Do NOT add Sodium Azide!
Purity	Affinity purified
Purification notes	This product was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (<i>Aequorea victoria</i>) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities.
Primary antibody notes	Designed to detect GFP and its variants in ELISA (sandwich or capture), immunoblotting and immunoprecipitation Peroxidase conjugated anti-GFP assayed by immunoblot shows a 42 kDa band when reacted with GFP on a western blot.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab6663 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/5000.

Target

Relevance

Function: Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca²⁺-activated photoprotein aequorin.

Subunit structure: Monomer.

Tissue specificity: Photocytes.

Post-translational modification: Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to didehydrotyrosine. Maturation of the chromophore requires nothing other than molecular oxygen.

Biotechnological use: Green fluorescent protein has been engineered to produce a vast number of variously colored mutants, fusion proteins, and biosensors. Fluorescent proteins and its mutated allelic forms, blue, cyan and yellow have become a useful and ubiquitous tool for making chimeric proteins, where they function as a fluorescent protein tag. Typically they tolerate N- and C-terminal fusion to a broad variety of proteins. They have been expressed in most known cell

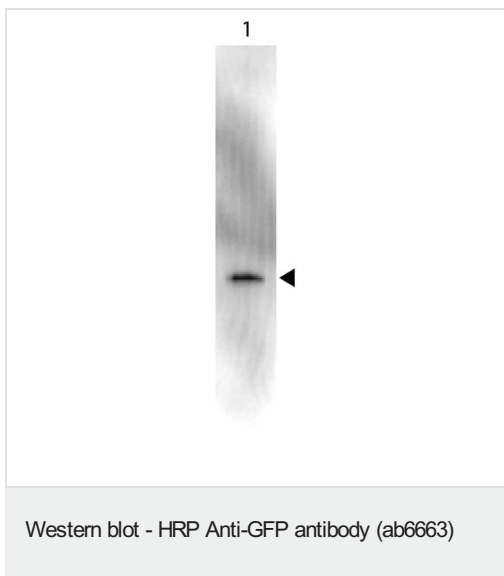
types and are used as a noninvasive fluorescent marker in living cells and organisms. They enable a wide range of applications where they have functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions. Can also be used as a molecular thermometer, allowing accurate temperature measurements in fluids. The measurement process relies on the detection of the blinking of GFP using fluorescence correlation spectroscopy.

Sequence similarities: Belongs to the GFP family.

Biophysicochemical properties: Absorption: Abs(max)=395 nm

Exhibits a smaller absorbance peak at 470 nm. The fluorescence emission spectrum peaks at 509 nm with a shoulder at 540 nm.

Images



HRP Anti-GFP antibody (ab6663) + GFP

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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