

Product datasheet

Alkaline Phosphatase Anti-GFP antibody ab6661

1 References 2 Images

Overview

Product name	Alkaline Phosphatase Anti-GFP antibody
Description	Alkaline Phosphatase Goat polyclonal to GFP
Host species	Goat
Conjugation	Alkaline Phosphatase
Specificity	Antibody recognizes wild type, recombinant and enhanced forms of GFP. Immunoblot shows a 42 kDa band when reacted with GFP on a Western blot. No reaction was observed against human, mouse and rat serum proteins.
Tested applications	Suitable for: WB, ELISA, Dot blot
Species reactivity	Reacts with: Species independent
Immunogen	Recombinant full length protein corresponding to GFP aa 1-250. Database link: P42212
General notes	<p>Designed to detect GFP and its variants in ELISA (sandwich or capture), immunoblotting and immunoprecipitation.</p> <p>Alkaline Phosphatase (Calf Intestine) (Molecular Weight 140,000 daltons)</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. Do Not Freeze.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.00136% Zinc chloride, 0.0095% Magnesium chloride, 0.79% Tris HCl, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 1% BSA
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. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat serum, anti-Alkaline Phosphatase and purified and partially purified GFP (<i>Aequorea victoria</i>) serum.
Primary antibody notes	Designed to detect GFP and its variants in ELISA (sandwich or capture), immunoblotting and immunoprecipitation.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab6661 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		1/500 - 1/2500.
ELISA		1/2000 - 1/8000. This product has been assayed against 1.0 µg of GFP in a standard capture ELISA using pNPP p-nitrophenyl phosphate as a substrate for 30 minutes at room temperature.
Dot blot		1/1000.

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.

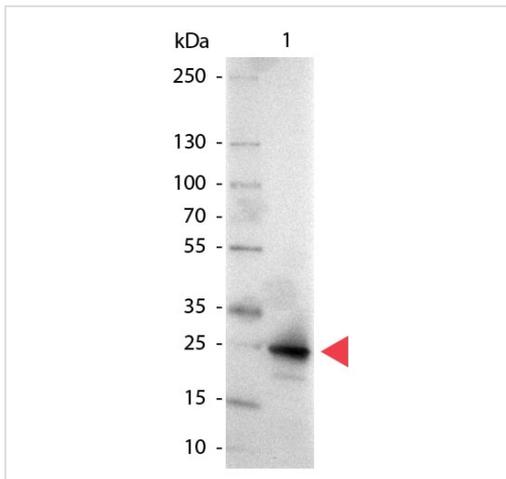
Biotechnological use: Green fluorescent protein has been engineered to produce a vast number of variously colored mutants, fusion proteins, and biosensors. Fluorescent proteins and its mutated allelic forms, blue, cyan and yellow have become a useful and ubiquitous tool for making chimeric proteins, 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



Western blot - Alkaline Phosphatase Anti-GFP antibody (ab6661)

Alkaline Phosphatase Anti-GFP antibody (ab6661) at 1/1000 dilution + GFP at 0.05 µg with Blocking buffer



Dot Blot - Alkaline Phosphatase Anti-GFP antibody (ab6661)

Dot blott analysis of ab6661 used in all lanes at a concentration of 1/1,000 incubated at room temperature for 1 hour.

Lane 1: 100 ng GFP protein

Lane 2: 33.33 ng GFP protein

Lane 3: 11.11 ng GFP protein

Lane 4: 3.70 ng GFP protein

Lane 5: 1.23 ng GFP protein

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