abcam

Product datasheet

Alkaline Phosphatase Anti-GFP antibody ab6661

3 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	Designed to detect GFP and its variants in ELISA (sandwich or capture), immunoblotting and immunoprecipitation. Alkaline Phosphatase (Calf Intestine) (Molecular Weight 140,000 daltons) 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. 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

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 (Aequorea victoria) 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 (Aequorea victoria) 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 Ca^{2+} -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.

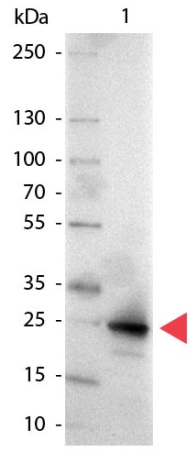
Biotechnological use: Green fluorescent protein has been engineered to produce a vast number of variously colored mutants, fusion proteins, and biosensors. Fluorescent proteins and its mutated allelic forms, blue, cyan and yellow have become a useful and ubiquitous tool for making chimeric proteins,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

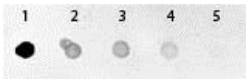
Biophysicochemical properties: Absorption: Abs(max)=395 nm
Exhibits a smaller absorbance peak at 470 nm. The fluorescence emission spectrum peaks at 509 nm with a shoulder at 540 nm.

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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