

Alkaline Phosphatase Anti-GFP antibody ab6661

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概述

产品名称	Alkaline Phosphatase Anti-GFP抗体
描述	Alkaline Phosphatase山羊多克隆抗体to GFP
宿主	Goat
偶联物	Alkaline Phosphatase
特异性	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.
经测试应用	适用于: WB, ELISA, Dot blot
种属反应性	与反应: Species independent
免疫原	Recombinant full length protein corresponding to GFP aa 1-250. Database link: P42212
常规说明	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	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
纯度	Affinity purified

纯化说明 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说明 Designed to detect GFP and its variants in ELISA (sandwich or capture), immunoblotting and immunoprecipitation.

克隆 多克隆

同种型 IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab6661于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

相关性 **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

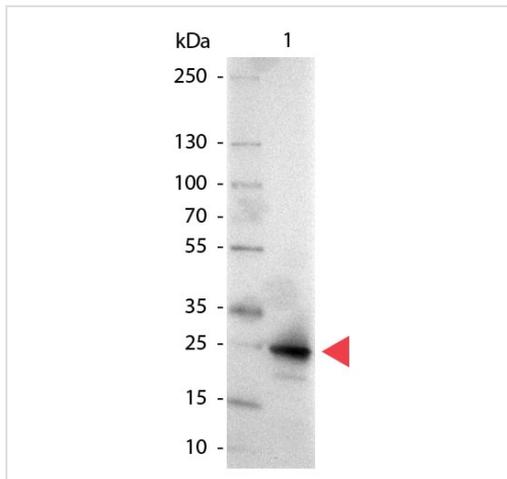
of gene expression, or as a measure of protein-protein interactions. Can also be used as a molecular thermometer, allowing accurate temperature measurements in fluids. The measurement process relies on the detection of the blinking of GFP using fluorescence correlation spectroscopy.

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.

图片



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

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



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

Dot blot 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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