

### Anti-GFP antibody ab5449

★★★★★ [1 Abreviews](#) [14 References](#) [2 图像](#)

#### 概述

产品名称	Anti-GFP抗体
描述	山羊多克隆抗体to GFP
宿主	Goat
特异性	Reactive against all variants of <i>Aequorea victoria</i> GFP such as S65T-GFP, RS-GFP, YFP and EGFP.
经测试应用	<b>适用于:</b> WB, IP
种属反应性	<b>与反应:</b> Species independent
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Pure GFP protein, or cells known to overexpress GFP.
常规说明	<p>Protein A will not bind goat IgG, so use alternates (eg. protein G) in IP with this antibody. This antibody is available in an affinity purified form as <b><a href="#">ab5450</a></b>.</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&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.05% Sodium azide
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

#### 应用

## The Abpromise guarantee

**Abpromise™** 承诺保证使用ab5449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)	1/5000 - 1/20000.
IP		Use 0.5µl for 10 <sup>6</sup> cells.

## 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 Ca<sup>2+</sup>-activated photoprotein aequorin.

**Subunit structure:** Monomer.

**Tissue specificity:** Photocytes.

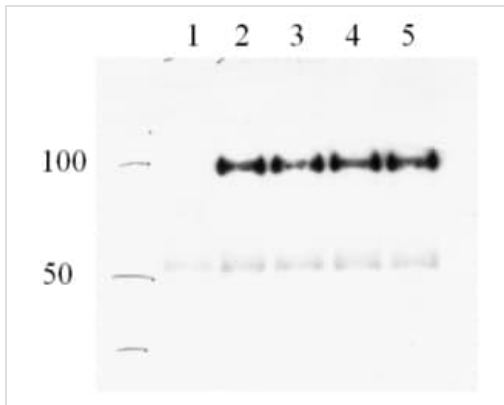
**Post-translational modification:** Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to dihydroxytyrosine. Maturation of the chromophore requires nothing other than molecular 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 - Anti-GFP antibody (ab5449)

Lane 1 : parental YTS cells (negative control)

Lanes 2-5 : YTS cells transfected with KIR-EGFP (mw 88 kD)

KIR-EGFP IP's with Goat polyclonal to GFP (ab5449) using 0.1 ul for  $2 \times 10^6$  cells. KIR-EGFP detected with a mouse monoclonal to KIR receptor (Borszcz et al EGI 2003, 33: 1084).

Lane 1 : parental YTS cells (negative control) Lanes 2-5 : YTS cells transfected with KIR-EGFP (mw 88 kD) KIR-EGFP IP's with Goat polyclonal to GFP (ab5449) using 0.1 ul for  $2 \times 10^6$  cells. KIR-EGFP detected with a mouse monoclonal to KIR receptor (Borszcz et al EGI 2003, 33: 1084).



Western blot - Anti-GFP antibody (ab5449)

5 ng GFP on PVDF membrane QC. Goat polyclonal to GFP (ab5449) used at dilutions of:

Lane 1 : 1/2500

Lane 2 : 1/5000

Lane 3 : 1/10,000

Lane 4 : 1/20,000

5 ng GFP on PVDF membrane QC. Goat polyclonal to GFP (ab5449) used at dilutions of: Lane 1 : 1/2500 Lane 2 : 1/5000 Lane 3 : 1/10,000 Lane 4 : 1/20,000

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

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