

Alexa Fluor® 488 Anti-GFP antibody [EPR14104] - GFP booster ab225314

 **RabMAb**

1 图像

概述

产品名称	Alexa Fluor® 488荧光Anti-GFP抗体[EPR14104] - GFP booster
描述	Alexa Fluor® 488荧光兔单克隆抗体[EPR14104] to GFP
宿主	Rabbit
偶联物	Alexa Fluor® 488. Ex: 495nm, Em: 519nm
经测试应用	适用于: ICC/IF 不适用于: Flow Cyt
种属反应性	与反应: Species independent
免疫原	Recombinant full length protein corresponding to Aequorea victoria GFP aa 1 to the C-terminus. Database link: P42212

 [Run BLAST with](#)

 [Run BLAST with](#)

阳性对照	Pure GFP protein, or cells known to overexpress GFP.
常规说明	<p>GFP booster is manufactured to increase the GFP signal in transfected cells. Cell permeabilization and fixation can significantly reduce the signal of GFP tagged proteins. GFP booster, an antibody conjugated to Alexa Fluor® 488, specifically enhances the GFP fluorescence in your experimental setting.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <p>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any</p>

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性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, 68.98% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR14104
同种型	IgG1

应用

The Abpromise guarantee Abpromise™ 承诺保证使用 ab225314 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
ICC/IF		Use at an assay dependent concentration.

应用说明 Is unsuitable for Flow Cyt.

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^{2+} -activated photoprotein aequorin.

Subunit structure: Monomer.

Tissue specificity: Photocytes.

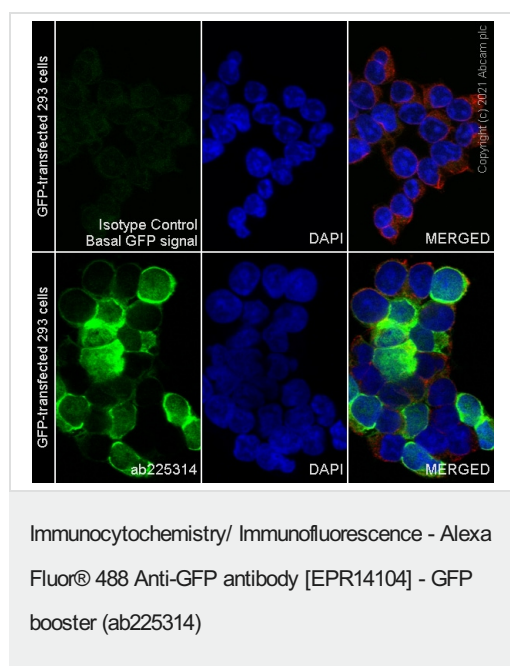
Post-translational modification: Contains a chromophore consisting of modified amino acid residues. The chromophore is formed by autocatalytic backbone condensation between Ser-65 and Gly-67, and oxidation of Tyr-66 to dihydroxytyrosine. Maturation of the chromophore requires nothing other than molecular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



Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilised GFP-transfected 293 cells labelling GFP with ab225314 at 1/250 dilution. [ab195889](#) was used to counterstain alpha tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

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

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