abcam

Product datasheet

Anti-Firefly Luciferase antibody [Luci17] ab16466

5 Abreviews 21 References 1 图像

概述

产品名称	Anti-Firefly Luciferase抗体[Luci17]
描述	**小鼠单克隆抗体**[Luci17] to Firefly Luciferase
宿主	Mouse
经测试应用	**适用于:** WB
种属反应性	**与反应:** Firefly
免疫原	Recombinant fragment corresponding to Firefly Firefly Luciferase. Hybridoma produced by the fusion of splenocytes from mice immunized with luciferase protein isolated from Photinus pyralis. Database link: **P08659**
阳性对照	WB: Purified luciferase protein
常规说明	Analysis of gene expression is most commonly assayed by transient transfection. Systems are generally based on the use of fusion genes which are inserted into cells, and the gene expression is assayed within 48 hours after introduction of DNA. Usually the fusion consists of the promoter binding site or enhancer sequence under study which is attached to a reporter gene. The amount of the reporter protein synthesized under the experimental conditions, is presumed to reflect the ability of the sequences studied to direct or promote transcription. Several enzymes are commonly used as reporter proteins, among them are chloramphenicol acetyl transferase (CAT), -galactosidase, human growth hormone (hGH) and luciferase. Luciferase has become one of the widely used reporter enzymes. The enzyme catalyzes a bioluminescent reaction which requires the substrate luciferin as well as Mg+2 and ATP. Mixing these reagents with the cell extract containing luciferase, results in a flash of light that decays rapidly. This light can be detected by a luminometer. The total light emission is proportional to the luciferase activity of the sample. The use of an antibody to detect luciferase can provide an alternative detection assay which directly detects luciferase protein levels, and thus has the advantage that it does not require luciferase activity and is not dependent on rapid kinetics. Moreover, antibodies can detect the luciferase enzyme expression in situ, providing a means to study the localized signal sequences using luciferase as a reporter gene. Reacts with Luciferase (Firefly) Protein. 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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.08% Sodium azide Constituent: PBS
纯度	Protein A/G purified
克隆	单克隆
克隆编号	Luci17
同种型	IgG1
轻链类型	unknown

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab16466于以下的经测试应用**

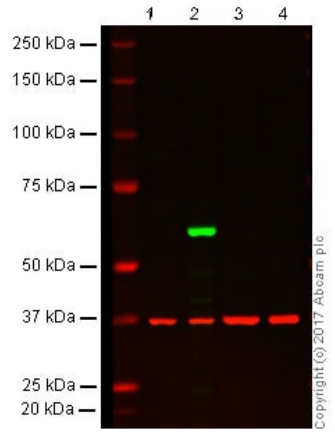
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (2)	Use at an assay dependent concentration.

靶标

相关性	Luciferase from the firefly has become one of the more widely used reporter proteins for the study of gene expression. Luciferase catalyzes a bioluminescent reaction which requires the substrate luciferin as well as Mg2+ and ATP. Mixing these reagents with the cell extract containing luciferase, results in a flash of light that decays rapidly. This light can be detected by a luminometer. The total light emission is proportional to the luciferase activity of the sample.
细胞定位	Peroxisome

图片



Western blot - Anti-Firefly Luciferase antibody [Luci17] (ab16466)

All lanes : Anti-Firefly Luciferase antibody [Luci17] (ab16466) at 1 µg/ml

Lane 1 : Non-transfected 293 whole cell lysate
Lane 2 : Firefly Luciferase transfected 293 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : NIH3T3 whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) at 1/10000 dilution

Performed under reducing conditions.

Observed band size: 65 kDa

Lanes 1 - 4: Merged signal (red and green). Green – ab16466 observed at 65 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with ab16466 and **ab181602** (loading control) overnight at 4°C. Antibody binding was detected using Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) at a 1:10000 dilution for 1hr at room temperature and then imaged.

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