

Product datasheet

Anti-Firefly Luciferase antibody [EPR17790] - BSA and Azide free ab232629

Recombinant RabMAb

2 Images

Overview

Product name	Anti-Firefly Luciferase antibody [EPR17790] - BSA and Azide free
Description	Rabbit monoclonal [EPR17790] to Firefly Luciferase - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Firefly Does not react with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Firefly Firefly Luciferase aa 150-250. The exact sequence is proprietary. Database link: P08659
Positive control	ICC/IF: HEK-293T cells.
General notes	Ab232629 is the carrier-free version of ab185924 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

ab232629 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17790
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab232629** in the following tested applications.

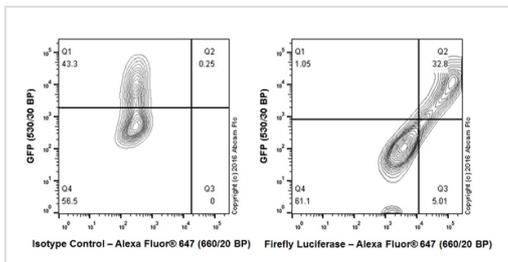
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 61 kDa (predicted molecular weight: 61 kDa).
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Target

Relevance	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 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.
Cellular localization	Peroxisome

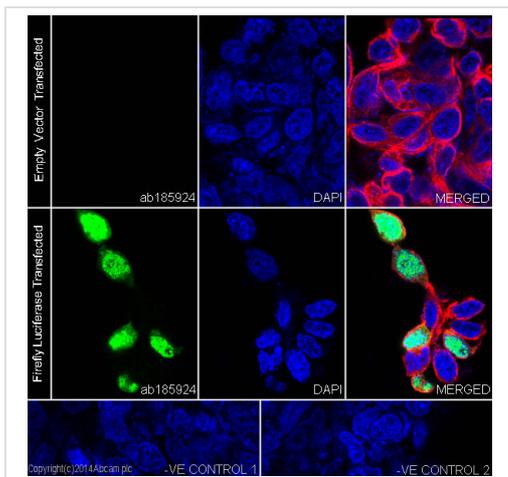
Images



Flow Cytometry - Anti-Firefly Luciferase antibody [EPR17790] - BSA and Azide free (ab232629)

Flow Cytometry analysis of 293T (Human epithelial cell line from embryonic kidney) cells transfected with GFP tagged Firefly Luciferase labeled with purified [ab185924](#) at 1/70 dilution (10µg/ml, Right panel). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 647)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Left panel) was used as the isotype control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab185924](#)).



Immunocytochemistry/ Immunofluorescence - Anti-Firefly Luciferase antibody [EPR17790] - BSA and Azide free (ab232629)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T (human epithelial cells from embryonic kidney) cells transfected with Empty vector or Firefly Luciferase, labeling Firefly Luciferase with [ab185924](#) at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/500 dilution (green). Nuclear staining on HEK-293T cells transfected with Firefly Luciferase is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution and [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows;

- ve control 1: [ab185924](#) at 1/500 dilution followed by [ab150120](#) (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
- ve control 2: [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution followed by [ab150077](#) (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab185924](#)).

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

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