abcam

Product datasheet

Anti-Firefly Luciferase antibody [EPR17789] - N-terminal ab185923

Recombinant RabMAb

5 References 6 Images

Overview

Product name	Anti-Firefly Luciferase antibody [EPR17789] - N-terminal
Description	Rabbit monoclonal [EPR17789] to Firefly Luciferase - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, Flow Cyt
Species reactivity	**Reacts with:** Firefly **Does not react with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Firefly Luciferase transfected HEK-293 whole cell lysate. ICC/IF: Firefly Luciferase transfected HEK-293T cells.
General notes	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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR17789
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab185923 in the following tested applications.

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

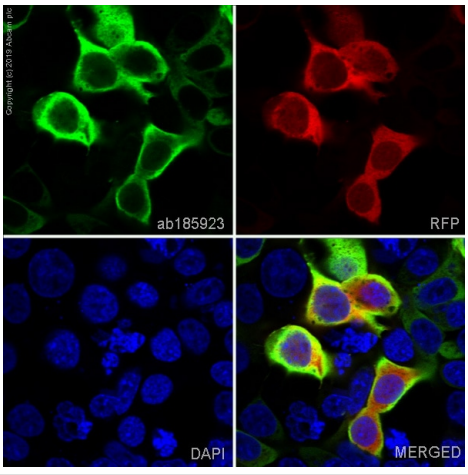
Application	Abreviews	Notes
ICC/IF		1/500.
WB		1/2000. Detects a band of approximately 61 kDa (predicted molecular weight: 61 kDa).
Flow Cyt		Use at an assay dependent concentration.

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 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.

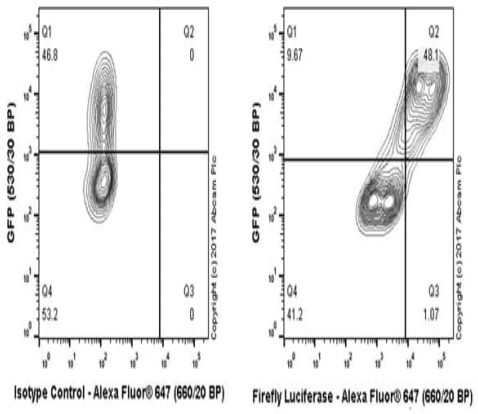
Cellular localization Peroxisome

Images



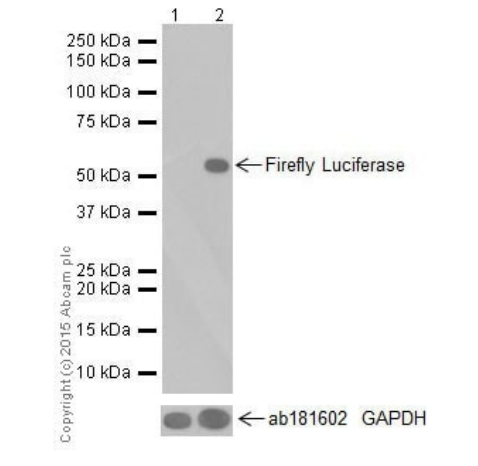
Immunocytochemistry/ Immunofluorescence - Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923)

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 ab185923 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green). Nuclear staining on HEK293T cells transfected with Firefly Luciferase is observed. The nuclear counter stain is DAPI (blue).



Flow Cytometry - Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923)

Flow Cytometry analysis of 293T (Human epithelial cell line from embryonic kidney) transfected with GFP tagged Firefly Luciferase cells labeling Firefly Luciferase with purified ab185923 at 1/200 dilution (10ug/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.



Western blot - Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923)

All lanes : Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923) at 1/2000 dilution

Lane 1 : Empty vector (vector control) transfected HEK293 (human embryonic kidney) whole cell lysate
Lane 2 : Firefly Luciferase transfected HEK293 (human embryonic kidney) whole cell lysate

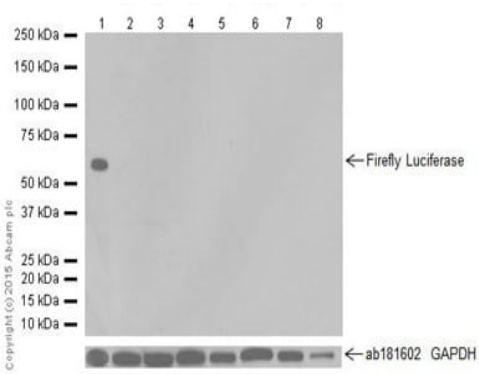
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 61 kDa
Observed band size: 61 kDa

Exposure time: 30 seconds

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923)

All lanes : Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923) at 1/1000 dilution

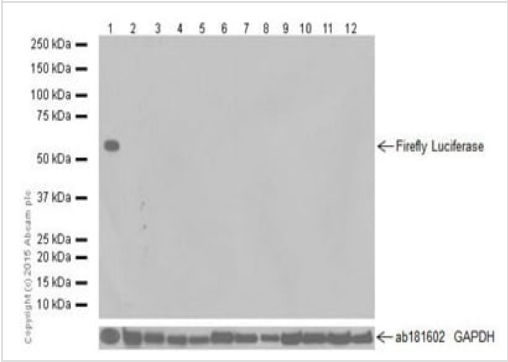
Lane 1 : Firefly Luciferase transfected HEK293 (human embryonic kidney) whole cell lysate at 10 µg
Lane 2 : HeLa (human cervix adenocarcinoma) whole cell lysate at 20 µg
Lane 3 : MCF-7 (human breast carcinoma) whole cell lysate at 20 µg
Lane 4 : Jurkat (human acute T cell leukemia) whole cell lysate at 20 µg
Lane 5 : SH-SY5Y (human neuroblastoma) whole cell lysate at 20 µg
Lane 6 : Human fetal heart lysate at 10 µg
Lane 7 : Human fetal kidney lysate at 10 µg
Lane 8 : Human fetal spleen lysate at 10 µg

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 61 kDa
Observed band size: 61 kDa

Exposure time: 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923)

All lanes : Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923) at 1/1000 dilution

Lane 1 : Firefly Luciferase transfected HEK293 (human embryonic kidney) whole cell lysate
Lane 2 : Mouse brain lysate
Lane 3 : Mouse heart lysate
Lane 4 : Mouse kidney lysate
Lane 5 : Mouse spleen lysate
Lane 6 : Rat brain lysate
Lane 7 : Rat kidney lysate
Lane 8 : Rat spleen lysate
Lane 9 : C6 (rat glioma) whole cell lysate lysate
Lane 10 : Raw264.7 (mouse abelson murine leukemia virus-induced tumor) whole cell lysate
Lane 11 : PC-12 (rat adrenal gland pheochromocytoma) whole cell lysate
Lane 12 : NIH/3T3 (mouse embryo) whole cell lysate

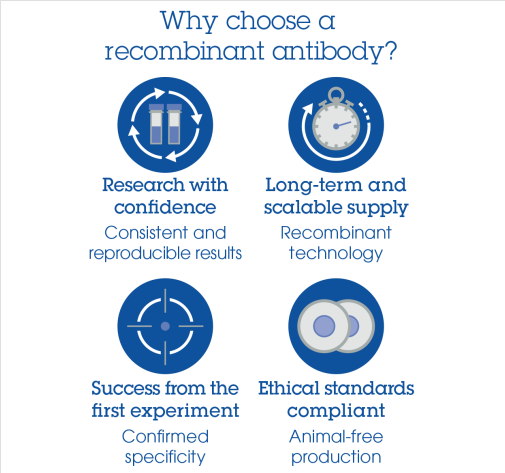
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 61 kDa
Observed band size: 61 kDa

Exposure time: 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.



Anti-Firefly Luciferase antibody [EPR17789] - N-terminal (ab185923)

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