

Product datasheet

Anti-Firefly Luciferase antibody [EPR17789] (Alexa Fluor® 647) ab237252

Recombinant RabMAb

2 Images

Overview

Product name	Anti-Firefly Luciferase antibody [EPR17789] (Alexa Fluor® 647)
Description	Rabbit monoclonal [EPR17789] to Firefly Luciferase (Alexa Fluor® 647)
Host species	Rabbit
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm
Tested applications	Suitable for: ICC/IF, Flow Cyt
Species reactivity	Reacts with: Firefly
Immunogen	Synthetic peptide within Firefly Luciferase aa 1-100 (N terminal). The exact sequence is proprietary. Database link: P08659
Positive control	ICC/IF: Firefly Luciferase transfected HEK-293T cells. Flow Cyt: HEK-293T cells transfected with GFP-tagged Firefly Luciferase cells.
General notes	<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 materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research.</p>

For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

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. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, PBS
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	EPR17789
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237252** in the following tested applications.

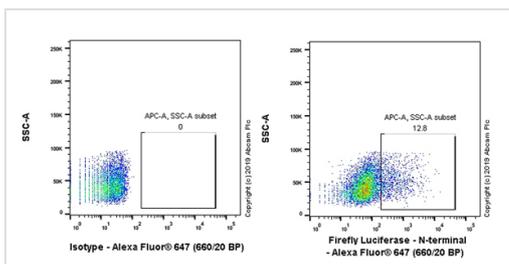
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100. This product gave a positive signal in Firefly Luciferase transfected HEK-293T fixed with 4% formaldehyde (10 min).
Flow Cyt		1/50.

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

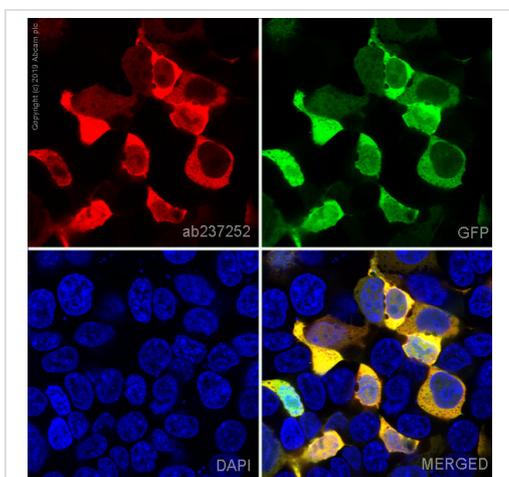
Images



Flow Cytometry - Anti-Firefly Luciferase antibody [EPR17789] (Alexa Fluor® 647) (ab237252)

Human HEK-293T cells transfected with GFP-tagged Firefly Luciferase stained with ab237252 (right). The cells were fixed with 4% formaldehyde and then permeabilized with 90% methanol. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab237252 (right)) or Rabbit IgG (monoclonal) Alexa Fluor® 647 (ab199093 (left)) (1×10^6 in 100µl at 1/50 dilution (10 µg/ml)) for 30 min at 22°C.

Acquisition of >5,000 events were collected using a 17 mW Red laser (633 nm) and 660/20 bandpass filter.



Immunocytochemistry/ Immunofluorescence - Anti-Firefly Luciferase antibody [EPR17789] (Alexa Fluor® 647) (ab237252)

ab237252 staining Firefly Luciferase in HEK-293T cells transfected with Firefly Luciferase with a GFP tag. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab237252 at 1/100 dilution (shown in red). Nuclear DNA was labeled with DAPI (shown in blue) and GFP is shown in green.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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