




## Product datasheet

# Alexa Fluor® 647 Anti-Hexokinase II antibody [EPR20839] ab237314

Recombinant RabMAb

## 2 Images

### Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Alexa Fluor® 647 Anti-Hexokinase II antibody [EPR20839]  |
| <b>Description</b>         | Alexa Fluor® 647 Rabbit monoclonal [EPR20839] to Hexokinase II   |
| <b>Host species</b>        | Rabbit   |
| <b>Conjugation</b>         | Alexa Fluor® 647. Ex: 652nm, Em: 668nm   |
| <b>Specificity</b>         | Not recommended for rat and mouse tissues in IHC.  |
| <b>Tested applications</b> | <b>Suitable for:</b> ICC/IF  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Mouse, Rat    |
| <b>Immunogen</b>           | Recombinant fragment within Human Hexokinase II aa 1-500. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements.<br>Database link: <a href="#">P52789</a><br> <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>   |
| <b>Positive control</b>    | ICC/IF: HeLa cells   |
| <b>General notes</b>       | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> .<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a> .<br>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 |

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## Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark. |
| <b>Storage buffer</b>       | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS   |
| <b>Purity</b>               | Protein A purified  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | EPR20839  |
| <b>Isotype</b>              | IgG   |

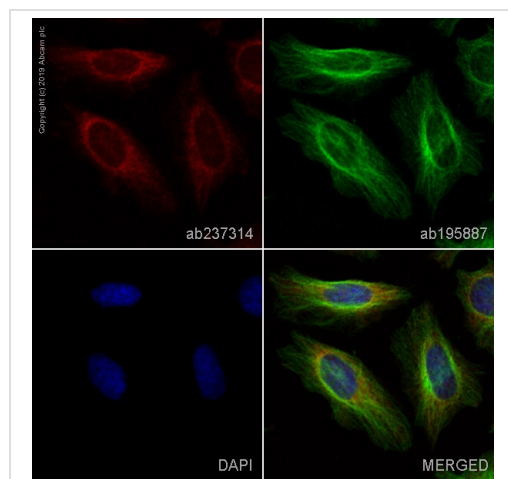
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab237314 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      |           | 1/1000.<br>This product gave a positive signal in HeLa cells fixed with 4% formaldehyde (10 min) |

## Target

|                              |  |
|------------------------------|--|
| <b>Tissue specificity</b>    | Predominant hexokinase isozyme expressed in insulin-responsive tissues such as skeletal muscle.  |
| <b>Pathway</b>               | Carbohydrate metabolism; hexose metabolism.  |
| <b>Sequence similarities</b> | Belongs to the hexokinase family.<br>Contains 2 hexokinase domains.  |
| <b>Domain</b>                | The N- and C-terminal halves of this hexokinase show extensive sequence similarity to each other. The catalytic activity is associated with the C-terminus while regulatory function is associated with the N-terminus. Each domain can bind a single glucose and Gluc-6-P molecule. |
| <b>Cellular localization</b> | Mitochondrion outer membrane. Its hydrophobic N-terminal sequence may be involved in membrane binding.   |



ab237314 staining Hexokinase II in HeLa cells. 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 ab237314 at 1/1000 dilution (shown in red) and **ab195887**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

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

Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-Hexokinase II antibody [EPR20839] (ab237314)

Why choose a recombinant antibody?

|  |  |
|--|--|
| <br><b>Research with confidence</b><br>Consistent and reproducible results | <br><b>Long-term and scalable supply</b><br>Recombinant technology |
| <br><b>Success from the first experiment</b><br>Confirmed specificity     | <br><b>Ethical standards compliant</b><br>Animal-free production  |

Alexa Fluor® 647 Anti-Hexokinase II antibody [EPR20839] (ab237314)

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

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