


## Product datasheet

# Alexa Fluor® 488 Anti-eIF2A antibody [EPR11042] ab214876

KO VALIDATED Recombinant RabMAb

3 Images

### Overview

|                     |   |
|---------------------|---|
| Product name        | Alexa Fluor® 488 Anti-eIF2A antibody [EPR11042]   |
| Description         | Alexa Fluor® 488 Rabbit monoclonal [EPR11042] to eIF2A  |
| Host species        | Rabbit  |
| Conjugation         | Alexa Fluor® 488. Ex: 495nm, Em: 519nm  |
| Tested applications | <b>Suitable for:</b> ICC/IF   |
| Species reactivity  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Mouse, Rat   |
| Immunogen           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| Positive control    | ICC/IF: HeLa cells, HAP1 wildtype and HAP1-EIF2A knockout cells   |
| General notes       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</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: 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. 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</p> |

## 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. 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>         | EPR11042   |
| <b>Isotype</b>              | IgG  |

## Applications

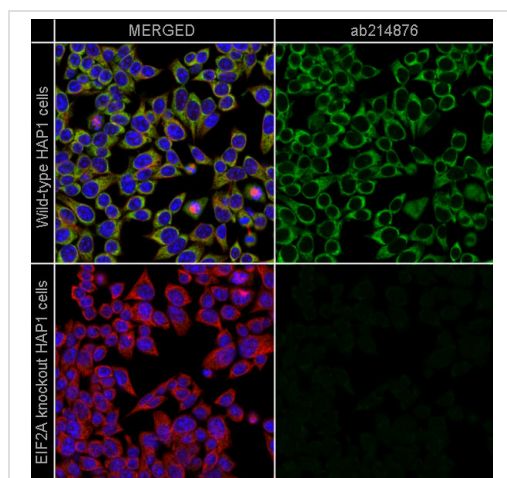
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab214876 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes   |
|-------------|-----------|---|
| ICC/IF      |           | 1/100 - 1/500.<br>This product gave a positive signal in cells fixed with 100% methanol (5 min) |

## Target

|                              |   |
|------------------------------|---|
| <b>Function</b>              | Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl-tRNAi to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNAi to 40 S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNAi to 40 S subunits in a GTP-dependent manner. May act by impinging the expression of specific proteins. |
| <b>Tissue specificity</b>    | Widely expressed. Expressed at higher level in pancreas, heart, brain and placenta.   |
| <b>Sequence similarities</b> | Belongs to the WD repeat EIF2A family.<br>Contains 3 WD repeats.  |

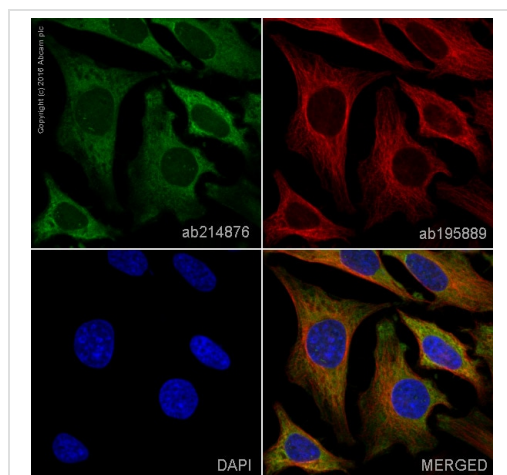
## Images



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-eIF2A antibody [EPR11042] (ab214876)

ab214876 staining eIF2A in wild-type HAP1 cells (top panel) and EIF2A knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol (5min), 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 with ab214876 at 1/500 dilution (shown in green) and **ab195889** at 1/250 dilution (shown in pseudo colour red) overnight at +4°C. Nuclear DNA was labelled in blue with DAPI.

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



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-eIF2A antibody [EPR11042] (ab214876)

ab214876 staining eIF2A in HeLa cells. The cells were fixed with 100% methanol (5 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 ab214876 at 1/100 dilution (shown in green) and **ab195889**, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 594), at 1/250 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

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

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Alexa Fluor® 488 Anti-eIF2A antibody [EPR11042]  
(ab214876)

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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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