

# Alexa Fluor® 647 Anti-Tryptophanyl tRNA synthetase/WRS antibody [EPR3424] ab211879

Recombinant RabMAb

2 Images

## Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Alexa Fluor® 647 Anti-Tryptophanyl tRNA synthetase/WRS antibody [EPR3424]   |
| <b>Description</b>         | Alexa Fluor® 647 Rabbit monoclonal [EPR3424] to Tryptophanyl tRNA synthetase/WRS  |
| <b>Host species</b>        | Rabbit  |
| <b>Conjugation</b>         | Alexa Fluor® 647. Ex: 652nm, Em: 668nm  |
| <b>Tested applications</b> | <b>Suitable for:</b> Flow Cyt (Intra)   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | Flow Cyt (intra)ometry: HeLa cells  |
| <b>General notes</b>       | <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: (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. 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 <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a>.</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>         | EPR3424  |
| <b>Isotype</b>              | IgG  |

## Applications

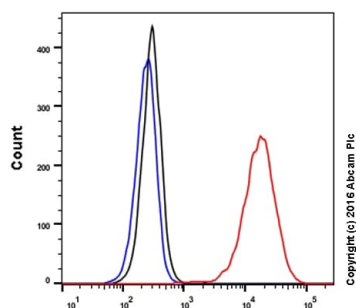
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab211879 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application      | Abreviews | Notes   |
|------------------|-----------|---------|
| Flow Cyt (Intra) |           | 1/5000. |

## Target

|   |   |
|---|---|
| <b>Function</b>                         | Isoform 1, isoform 2 and T1-TrpRS have aminoacylation activity while T2-TrpRS lacks it. Isoform 2, T1-TrpRS and T2-TrpRS possess angiostatic activity whereas isoform 1 lacks it. T2-TrpRS inhibits fluid shear stress-activated responses of endothelial cells. Regulates ERK, Akt, and eNOS activation pathways that are associated with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression. |
| <b>Sequence similarities</b>            | Belongs to the class-I aminoacyl-tRNA synthetase family.<br>Contains 1 WHEP-TRS domain.   |
| <b>Post-translational modifications</b> | Proteolytic cleavage generates 2 forms; T1-TrpRS and T2-TrpRS.  |
| <b>Cellular localization</b>            | Cytoplasm.  |

## Images



Tryptophanyl tRNA synthetase - Alexa Fluor® 647 (586/15 BP)

Flow Cytometry (Intracellular) - Alexa Fluor® 647  
Anti-Tryptophanyl tRNA synthetase/WRS antibody  
[EPR3424] (ab211879)

Overlay histogram showing HeLa cells stained with ab211879 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab211879, 1/5000 dilution) for 30 min at 22°C. Isotype control antibody (black line) was Rabbit IgG (monoclonal) Alexa Fluor® 647 (**ab199093**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 40 mW Red laser (640nm) and 670/14 bandpass filter.

### 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® 647 Anti-Tryptophanyl tRNA  
synthetase/WRS antibody [EPR3424] (ab211879)

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

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