


Product datasheet

PE Anti-PKR antibody [EPR19374] ab225322

Recombinant RabMAb

2 Images

Overview

| | |
|---------------------|---|
| Product name | PE Anti-PKR antibody [EPR19374] |
| Description | PE Rabbit monoclonal [EPR19374] to PKR |
| Host species | Rabbit |
| Conjugation | PE. Ex: 488nm, Em: 575nm |
| Tested applications | Suitable for: Flow Cyt (Intra) |
| Species reactivity | Reacts with: Mouse Predicted to work with: Rat, Human  |
| Immunogen | Recombinant fragment within Mouse PKR aa 1-200. 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 <u>contact</u> our Scientific Support team to discuss your requirements. Database link: <u>Q03963</u> |
| Positive control | Flow Cyt (intra): NIH/3T3 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 <u>see here</u>.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <u>RabMAb[®] patents</u>.</p> |

Properties

| | |
|----------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Do Not Freeze. Store In the Dark. |
| Storage buffer | pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 1% BSA, PBS |
| Purity | Protein A purified |

| | |
|--------------|------------|
| Clonality | Monoclonal |
| Clone number | EPR19374 |
| Isotype | IgG |

Applications

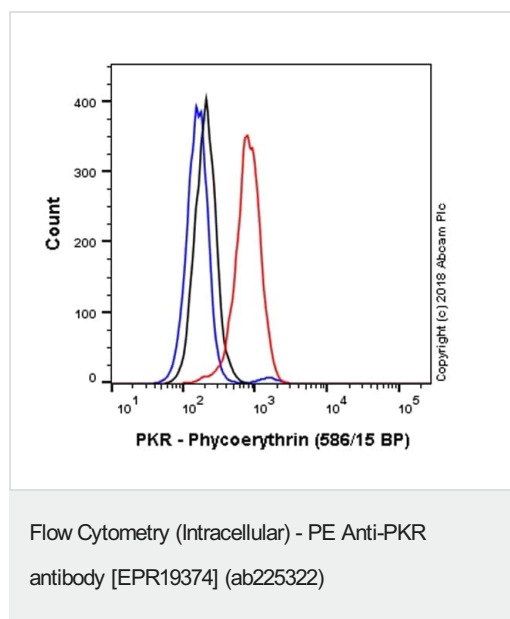
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab225322 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|------------------|-----------|---|
| Flow Cyt (Intra) | | 1/5000. The cellular localisation of this product has been verified in ICC/IF. |

Target

| | |
|---|---|
| Function | Following activation by double-stranded RNA in the presence of ATP, the kinase becomes autophosphorylated and can catalyze the phosphorylation of the translation initiation factor EIF2S1, which leads to an inhibition of the initiation of protein synthesis. Double-stranded RNA is generated during the course of a viral infection. |
| Sequence similarities | Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. GCN2 subfamily. Contains 2 DRBM (double-stranded RNA-binding) domains. Contains 1 protein kinase domain. |
| Post-translational modifications | Autophosphorylated on several Ser and Thr residues. Autophosphorylation of Thr-451 is dependent on Thr-446 and is stimulated by dsRNA binding and dimerization. Autophosphorylation apparently leads to the activation of the kinase. |

Images



Overlay histogram showing NIH/3T3 cells stained with ab225322 (red line). The cells were fixed with 4% formaldehyde (10 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 (ab225322, 1/5000 dilution) for 30 min at 22°C.

Isotype control antibody (black line) was Rabbit IgG (monoclonal) Phycoerythrin (**ab209478**) 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 50 mW Yellow/Green laser (561nm) and 586/15 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

PE Anti-PKR antibody [EPR19374] (ab225322)

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

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