

## Product datasheet

# Rhodamine Anti-R Phycoerythrin/rpeA antibody ab34717

## 1 References

### Overview

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<b>Product name</b>	Rhodamine Anti-R Phycoerythrin/rpeA antibody
<b>Description</b>	Rhodamine Goat polyclonal to R Phycoerythrin/rpeA
<b>Host species</b>	Goat
<b>Conjugation</b>	Rhodamine. Ex: 550nm, Em: 570nm
<b>Specificity</b>	This antibody recognizes R Phycoerythrin/rpeA conjugated IgG. It will also cross react with B Phycoerythrin.
<b>Tested applications</b>	<b>Suitable for:</b> Immunomicroscopy, Flow Cyt, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Red Algae
<b>Immunogen</b>	Full length native protein (purified) corresponding to R Phycoerythrin/rpeA.
<b>General notes</b>	<p>Label: Tetramethylrhodamine isothiocyanate (TRITC) (Molecular Weight 444 daltons). Absorption Wavelength: 550 nm. Emission Wavelength: 570 nm. Fluorochrome/Protein Ratio: 4.0 moles TRITC per mole of Goat IgG.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1% BSA, 0.42% Potassium phosphate, 0.87% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	This antibody was purified from monospecific antiserum by immunoaffinity chromatography using a R Phycoerythrin/rpeA coupled to agarose beads followed by solid phase adsorption to remove

any unwanted reactivities.

**Clonality**

Polyclonal

**Isotype**

IgG

**Applications**

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**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab34717 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
Immunomicroscopy		Use at an assay dependent dilution.
Flow Cyt		Use at an assay dependent dilution.
WB		Use at an assay dependent dilution. Predicted molecular weight: 240 kDa.

**Target**

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**Relevance**

Phycoerythrin is one of a series of fluorescent pigments known as phycobiliproteins, which are produced by red and blue green algae. It occurs in more than one form, and has found application in immunology and diagnostic medicine. B and R Phycoerythrins provide superior labeling compared to fluorescein and rhodamine, and are used for labeling antibodies, usually monoclonals. These dyes may also be coupled to enzymes and other proteins, nucleic acids, polypeptide hormones, drugs, etc. Since phycoerythrins absorb light maximally between 450 and 650nm they fill the need for an intense fluorescent dye in the longer wavelengths of the visible spectrum, thereby avoiding interference from naturally fluorescing biological substances. R Phycoerythrin (240 kDa) is a labile molecule that may dissociate into components upon exposure to reducing or denaturing agents.

**Cellular localization**

Plastid; chloroplast; chloroplast thylakoid lumen. Periphery of the rods of the phycobilisome.

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