

# Texas Red ® Anti-R Phycoerythrin/rpeA antibody ab34734

[2 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Texas Red ® Anti-R Phycoerythrin/rpeA antibody
<b>Description</b>	Texas Red ® Goat polyclonal to R Phycoerythrin/rpeA
<b>Host species</b>	Goat
<b>Conjugation</b>	Texas Red ®. Ex: 596nm, Em: 620nm
<b>Specificity</b>	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum and R-Phycoerythrin/rpeA conjugated IgG. This antibody will cross react with B-Phycoerythrin. Reactivity with other phycobiliproteins is unknown.
<b>Tested applications</b>	<b>Suitable for:</b> WB, Dot blot
<b>Species reactivity</b>	<b>Reacts with:</b> Red Algae
<b>Immunogen</b>	Full length protein corresponding to R Phycoerythrin/rpeA. This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with highly purified R-Phycoerythrin from the seaweed gracilaria.
<b>General notes</b>	<p>Label: Texas Red Sulfonyl Chloride (Molecular Weight 625 daltons) Absorption Wavelength: 596 nm Emission Wavelength: 620 nm Fluorochrome/Protein Ratio: 2.5 moles Texas Red™ per mole of Goat IgG Conjugation Reference: J. Titus, P. Haugland, S. Sharrow, D. Segal J. Immunol. Methods 50; 193, 1982.</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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 6.50

	Preservative: 0.01% Sodium azide
	Constituents: 1% BSA, 0.42% Tripotassium orthophosphate, 0.87% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified by immunoaffinity chromatography using R Phycoerythrin/rpeA coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab34734 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

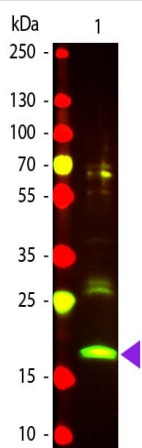
Application	Abreviews	Notes
<b>WB</b>		Use at an assay dependent concentration. Predicted molecular weight: 18 kDa.
<b>Dot blot</b>		Use at an assay dependent concentration.

## Target

**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.

## Images



Western blot - Texas Red ® Anti-R  
Phycoerythrin/rpeA antibody (ab34734)

Texas Red ® Anti-R Phycoerythrin/rpeA antibody (ab34734) at  
1/1000 dilution (60 minutes at room temperature) + R-Phycoerythrin  
at 0.05 µg

**Predicted band size:** 18 kDa

**Observed band size:** 18 kDa

Blocking buffer for fluorescent Western blotting used for 30 minutes  
at room temperature.

Predicted size: 18 kDa for R-Phycoerythrin.

Other bands: R-Phycoerythrin splice variants and isoforms.

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

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