

## Datasheet for 600-101-387

## R-Phycoerythrin Antibody

### Overview

<b>Description:</b>	Anti-R-Phycoerythrin (GOAT) Antibody - 600-101-387
<b>Item No.:</b>	600-101-387
<b>Size:</b>	1 mg
<b>Applications:</b>	ELISA, IHC
<b>Reactivity:</b>	Phycoerythrin
<b>Host Species:</b>	Goat

### Product Details

<b>Background:</b>	Anti-R-Phycoerythrin Antibody generated in goat recognizes RPE. Phycoerythrin (PE) is a red protein-pigment present in red algae and cryptophytes and an accessory pigment to the main chlorophyll pigments responsible for photosynthesis. R-phycoerythrin is predominantly produced by red algae. The molecular weight of R-PE is 240kDa. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
<b>Synonyms:</b>	goat anti R-Phycoerythrin Antibody, goat anti-R-Phycoerythrin Antibody, goat anti Phycoerythrin
<b>Host Species:</b>	Goat
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Reactivity:</b>	Phycoerythrin
<b>Immunogen Type:</b>	Native Protein
<b>Immunogen:</b>	This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with highly purified R-Phycoerythrin from the seaweed gracilaria.

**Purity/Specificity:** This product was prepared from monospecific antiserum by immunoaffinity chromatography using a R-Phycoerythrin coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum and R-Phycoerythrin conjugated IgG. This antibody will cross react with B-Phycoerythrin. Reactivity with other phycobiliproteins is unknown.

**Relevant Links:**

- [600-101-387 SDS](#)
- [UniProtKB - Q7SIG0](#)

## Application Details

**Tested Applications:** ELISA

**Suggested Applications:** IHC (Based on references)

**Application Note:** Anti-R-Phycoerythrin Antibody is tested by ELISA and suitable for western blotting, fluorescent assays, immunoprecipitation, immunodiffusion, conjugation to magnetic particles (beads) and most other immunological methods requiring lot-to-lot consistency, high titer and specificity. Although not specifically tested, this reagent should also be useful for FACS and other fluorescent immunoassays. R-Phycoerythrin (240 kDa) is a labile molecule that may dissociate into components upon exposure to reducing or denaturing agents. Reaction with low molecular fragments is typically noted by western blot.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:20,000

**IHC:** 1:1,000 - 1:5,000

**WB:** 1:2,000 - 1:10,000

## Formulation

**Physical State:** Liquid (sterile filtered)

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Preservative:** 0.01% (w/v) Sodium Azide

**Stabilizer:** None

## Shipping & Handling

**Shipping Condition:** Wet Ice

**Storage Condition:** Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

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**Expiration:** Expiration date is one (1) year from date of receipt.

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## References

- Veenstra et al. Diabetic Retinopathy: Retina-Specific Methods for Maintenance of Diabetic Rodents and Evaluation of Vascular Histopathology and Molecular Abnormalities. *Current Protocols in Mouse Biology* (2015)

## Disclaimer

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