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Datasheet for 600-101-387

R-Phycoerythrin Antibody

Overview

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

Product Details

Background:	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.
Synonyms:	goat anti R-Phycoerythrin Antibody, goat anti-R-Phycoerythrin Antibody, goat anti Phycoerythrin
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Phycoerythrin
Immunogen Type:	Native Protein
Immunogen:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

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)

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