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Datasheet for 100-4199

B-Phycoerythrin Antibody

Overview

Description:	Anti-B-PHYCOERYTHRIN (RABBIT) Antibody - 100-4199
Item No.:	100-4199
Size:	2 mL
Applications:	WB, Other
Reactivity:	Phycoerythrin
Host Species:	Rabbit

Product Details

Background:	Anti-B-Phycoerythrin Antibody generated in rabbit recognizes Phycoerythrin. 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. B-phycoerythrin and R-phycoerythrin is predominantly produced by red algae. 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:	rabbit anti-B-Phycoerythrin Antibody, rabbit anti B-Phycoerythrin, rabbit anti Phycoerythrin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Reactivity:	Phycoerythrin
Immunogen Type:	Native Protein
Immunogen:	B-Phycoerythrin [Porphyridium cruentum]
Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified B-Phycoerythrin [Porphyridium cruentum]. Cross reactivity against B-Phycoerythrin from other sources is unknown.

Relevant Links:	• UniProtKB - P11392

Application Details

Tested Applications:	WB
Suggested Applications:	Other (Based on references)
Application Note:	Anti-B-Phycoerythrin has been tested by western blot and is suitable for dot blot, ELISA, immunoprecipitation and most immunological methods requiring high titer and specificity.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000-1:100,000
IHC:	1:1,000-1:5,000
IP:	1:1,000-1:5,000
WB:	1:2,000-1:10,000

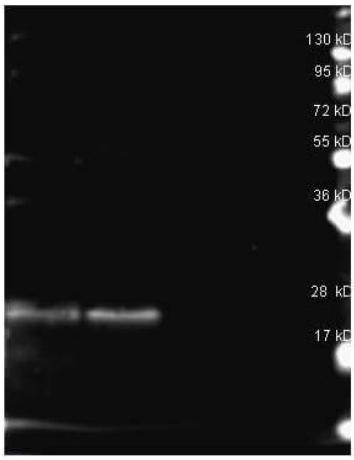
Formulation

Physical State:	Lyophilized
Concentration:	80 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.

Images



Western Blot
Western Blot of Rabbit anti-B-Phycoerythrin antibody. Lane 1: B-Phycoerythrin reduced. Lane 2: B-Phycoerythrin reduced. Lane 3: none. Load: ~1µg per lane. Primary antibody: ß-Phycoerythrin antibody at 1:1000 for overnight at 4°C. Secondary antibody: Dylight 649 conjugated Donkey anti rabbit secondary antibody at 1:10,000 for 1.5 hrs at RT. Block: MB-070 overnight at 4°C. Predicted/Observed size: 18.5 kDa, ~25 kDa for B-Phycoerythrin. Other band(s): none.

References

- Martínez-Riaño A et al. CD137 agonists in mice suppress germinal center responses by increasing the immunosuppressive activity of follicular regulatory T-cells. *EMBO J.* (2026)
- Martínez-Riaño A et al. Long-term retention of antigens in germinal centers is controlled by the spatial organization of the follicular dendritic cell network. *Nat Immunol.* (2023)
- Camara A et al. Lymph node mesenchymal and endothelial stromal cells cooperate via the RANK-RANKL cytokine axis to shape the sinusoidal macrophage niche. *Immunity.* (2019)
- Degn SE et al. Clonal Evolution of Autoreactive Germinal Centers. *Cell.* (2017)
- Cremasco, V et al. B cell homeostasis and follicle confines are governed by fibroblastic reticular cells. *Nature Immunology* (2014)

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