

**Datasheet for 100-401-242****Cecropin B Antibody****Overview**

<b>Description:</b>	Anti-CECROPIN B (RABBIT) Antibody - 100-401-242
<b>Item No.:</b>	100-401-242
<b>Size:</b>	100 µg
<b>Reactivity:</b>	Silkworm
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Cecropins are produced by insects, particularly under conditions of infection. Cecropins are bioactive peptides that exhibit activities by interacting with membranes and forming transmembrane channels that allow the free flow of electrolytes, metabolites and water across the phospholipid bilayers. Cecropins A, B and D are close homologues consisting of 35-39 residues. They are found in the pupae of the cecropin moth, but related homologues named lepidopteran, bactericidin, moricin and sarcotoxin are produced by other insects.
<b>Synonyms:</b>	rabbit anti-Cecropin B Antibody, Cecropin-B, Lepidopteran-A/B, CECB1 and CECB2
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	Antiserum

**Target Details**

<b>Gene Name:</b>	CECB1/CECB2
<b>Reactivity:</b>	Silkworm
<b>Immunogen Type:</b>	Recombinant Protein
<b>Immunogen:</b>	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic full-length cecropin B corresponding to a modified sequence from that which is found in silkworm: Lys-Trp-Lys-Val-Phe-Lys-Lys-Ile-Glu-Lys-Val-Gly-Arg-Asn-Ile-Arg-Asn-Gly-Ile-Val-Lys-Ala-Gly-Pro-Ala-Ile-Ala-Val-Leu-Gly-Glu-Ala-Lys-Ala-Leu.

**Purity/Specificity:** This product was prepared from monospecific antiserum by immunoaffinity chromatography using cecropin B 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-Rabbit Serum and purified and partially purified cecropin B. Reactivity against other forms of cecropins has not yet been determined.

**Relevant Links:**

- [UniProtKB - P04142](#)
- [NCBI - BAA04990.1](#)
- [GeneID - 693028](#)

## Application Details

**Application Note:** Anti-cecropin B is useful for the detection of cecropin B in various immunological assays. This reagent has specific value for the study of cecropins in transgenic plants. The antibody may also recognize naturally occurring cecropin A. Cecropin B has been modified in some instances by substituting a single amino acid to render the molecule less susceptible to proteolytic cleavage.

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

**ELISA:** 1:5,000 - 1:20,000

**IP:** 1:100

**WB:** 1:500 - 1:5,000

## Formulation

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

**Concentration:** 0.33mg/mL

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

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

**Stabilizer:** 50% (v/v) Glycerol

## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store antibody at -20° C prior to opening. 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.

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## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.