

**Datasheet for 600-401-CW2****MYBPC1 Antibody****Overview**

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Description:</b>  | Anti-MYBPC1 (RABBIT) Antibody - 600-401-CW2 |
| <b>Item No.:</b>     | 600-401-CW2                                 |
| <b>Size:</b>         | 100 µg                                      |
| <b>Applications:</b> | ELISA, IF, WB                               |
| <b>Reactivity:</b>   | Human, Mouse, Rat                           |
| <b>Host Species:</b> | Rabbit                                      |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Myosin binding protein C (MYBPC) is a component of the thick filament of striated muscle, with the slow-type isoform designated MYBPC1. Both the fast-type (MYBPC2) and slow-type MYBPC protein contains seven immunoglobulin C2 motifs and three fibronectin type-III repeats. Multiple isoforms of MYBPC1 are known to exist, and are present in varying amounts in different skeletal muscles. It is thought that the MYBPC1 slow subfamily may play important roles in the assembly and stabilization of sarcomeric M- and A-bands and regulate the contractile properties of the actomyosin filaments. |
| <b>Synonyms:</b>     | MYBPC1 Antibody, LCCS4, MYBPCC, MYBPCS, Myosin-binding protein C, slow-type, C-protein, skeletal muscle slow isoform, Slow MyBP-C                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Target Details**

|                        |                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>      | MYBPC1                                                                                                                                                                    |
| <b>Reactivity:</b>     | Human, Mouse, Rat                                                                                                                                                         |
| <b>Immunogen Type:</b> | Conjugated Peptide                                                                                                                                                        |
| <b>Immunogen:</b>      | Anti-MYBPC1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human MYBPC1. |

**Purity/Specificity:** Anti-MYBPC1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least five isoforms of MYBPC1 are known to exist. MYBPC1 antibody is predicted not to cross-react with other MYBPC family members

**Relevant Links:**

- [UniProtKB - Q00872](#)
- [GeneID - 4604](#)
- [NCBI - NP\\_002456](#)

## Application Details

**Tested Applications:** ELISA, IF, WB

**Application Note:** Anti-MYBPC1 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 128 kDa in Western Blots of specific cell lysates and tissues.

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

**ELISA:** User Optimized

**IF:** 20 µg/mL

## Formulation

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

**Concentration:** 1 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

**Preservative:** 0.02% (w/v) Sodium Azide

**Stabilizer:** None

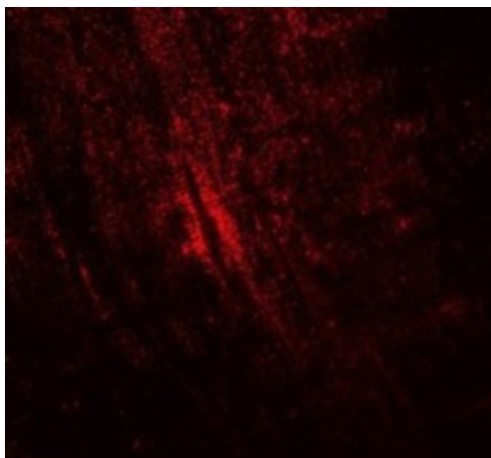
## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** Store vial 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.

## Images

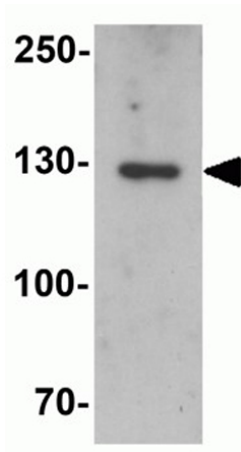


### Immunofluorescence Microscopy

Immunofluorescence of MYBPC1.

Tissue: mouse skeletal muscle cells.

Primary Antibody: MYBPC1 antibody at 20 µg/mL.



### Western Blot

Western blot analysis of MYBPC1.

Load: rat skeletal muscle tissue lysate.

Primary Antibody: MYBPC1 antibody at 1 µg/mL.

## 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.