

For Research Use Only

# MYBPC2 Polyclonal antibody

Catalog Number: 25257-1-AP



## Basic Information

### Catalog Number:

25257-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG19424

### GenBank Accession Number:

BC136389

### GeneID (NCBI):

4606

### UNIPROT ID:

Q14324

### Full Name:

myosin binding protein C, fast type

### Calculated MW:

1141 aa, 128 kDa

### Observed MW:

130 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF-P 1:200-1:800

## Applications

### Tested Applications:

WB, IF-P, IP, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB : mouse skeletal muscle tissue, rat skeletal muscle tissue

IP : mouse skeletal muscle tissue,

IF-P : mouse skeletal muscle tissue,

## Background Information

MYBPC2, also known as MYBPCF, fMyBP-C, is a member of the myosin-binding protein C (MYBPC) family. MYBPC is a myosin-associated protein found in the cross-bridge-bearing zone, or C region, of A bands in striated muscle. MYBPC has three paralogs encoded by unique genes, including slow skeletal (MYBPC1), fast skeletal (MYBPC2), and cardiac (MYBPC3). Slow skeletal MyBP-C (sMyBP-C), fast skeletal MyBP-C (fMyBP-C), and cardiac MyBP-C (cMyBP-C) proteins are highly conserved with over 90% homology. They play unique muscle-specific structural and regulatory roles in actomyosin interactions and contractility in striated muscles, including both cardiac and skeletal muscles (PMID: 35832193, 23936073).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

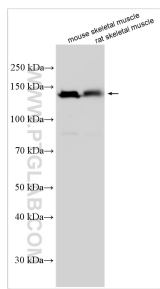
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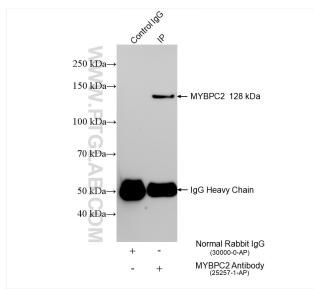
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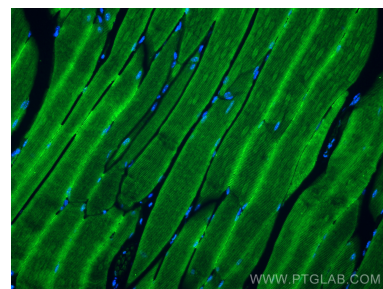
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25257-1-AP (MYBPC2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-MYBPC2 (IP:25257-1-AP, 4ug; Detection:25257-1-AP 1:40000) with mouse skeletal muscle tissue lysate 1040 ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using MYBPC2 antibody (25257-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).