# TPM2 Rabbit pAb

**Catalog No.: A3096**

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## Basic Information

**Observed MW**
37 kDa

**Calculated MW**
33 kDa

**Category**
Polyclonal Antibodies

**Applications**
WB, IP, IF/ICC, IHC-P, ELISA

**Cross Reactivity**
Human, Mouse, Rat

## Background

This gene encodes beta-tropomyosin, a member of the actin filament binding protein family, and mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogryposis syndromes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:1000 - 1:2000 |
| **IP** | 0.5μg-4μg antibody for 300μg-600μg extracts of whole cells |
| **IF/ICC** | 1:50 - 1:100 |
| **IHC-P** | 1:50 - 1:100 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
7169

**Swiss-Prot**
P07951

**Immunogen**
Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**
DA1; DA2B; NEM4; TMSB; AMCD1; DA2B4; HEL-S-273; TPM2

**Contact**

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

## Product Information

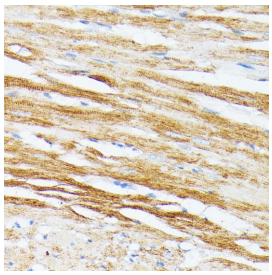
**Source**
Rabbit

**Isotype**
IgG

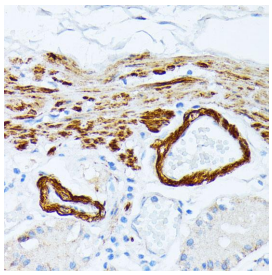
**Purity**
Affinity purification

**Storage**
Store at -20℃

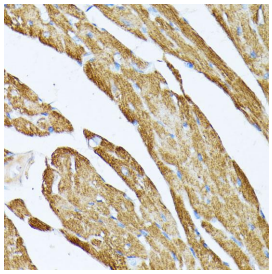
## Validation Data



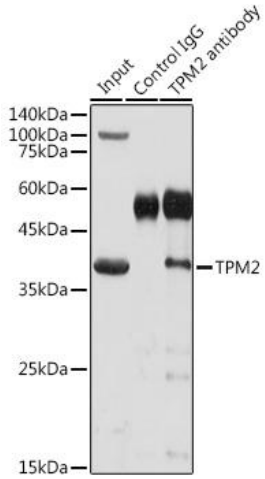
Immunohistochemistry analysis of paraffin-embedded Rat heart using TPM2 Rabbit pAb (A3096) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



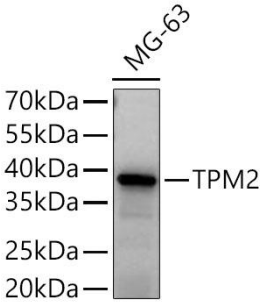
Immunohistochemistry analysis of paraffin-embedded Human stomach using TPM2 Rabbit pAb (A3096) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse heart using TPM2 Rabbit pAb (A3096) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.




Immunoprecipitation analysis of 300 µg extracts of Mouse skeletal muscle cells using 3 µg TPM2 Rabbit pAb (A3096). Western blot was performed from the immunoprecipitate using TPM2 Rabbit pAb (A3096) at a dilution of 1:1000.




Western blot analysis of lysates from MG-63 cells using TPM2 Rabbit pAb (A3096) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



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