

**TPM2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17546b**

**Specification**

**TPM2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P07951</a>
Other Accession	<a href="#">P58775</a> , <a href="#">P58776</a> , <a href="#">P58774</a> , <a href="#">P19352</a> , <a href="#">Q5KR48</a> , <a href="#">NP_998839.1</a>
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32851
Antigen Region	252-280

**TPM2 Antibody (C-term) - Additional Information**

**Gene ID** 7169

**Other Names**

Tropomyosin beta chain, Beta-tropomyosin, Tropomyosin-2, TPM2, TMSB

**Target/Specificity**

This TPM2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 252-280 amino acids from the C-terminal region of human TPM2.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TPM2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TPM2 Antibody (C-term) - Protein Information**

**Name** TPM2

## Synonyms TMSB

**Function** Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments. The non-muscle isoform may have a role in agonist-mediated receptor internalization.

## Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P58775}. Note=Associates with F-actin stress fibers. {ECO:0000250|UniProtKB:P58775}

## Tissue Location

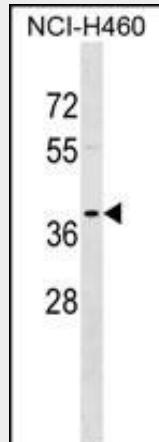
Present in primary breast cancer tissue, absent from normal breast tissue. {ECO:0000269|Ref.10}

## TPM2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## TPM2 Antibody (C-term) - Images



TPM2 Antibody (C-term) (Cat. #AP17546b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the TPM2 antibody detected the TPM2 protein (arrow).

## TPM2 Antibody (C-term) - 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.

**TPM2 Antibody (C-term) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Martins-de-Souza, D., et al. J Psychiatr Res 44(14):989-991(2010)  
Assinder, S.J., et al. Mol. Carcinog. 49(6):525-531(2010)  
Ochala, J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(21):9807-9812(2010)  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)