

TPM2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17546b**Specification**

TPM2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P07951](#)**TPM2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7169**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TPM2 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TPM2 Antibody (C-term) Blocking Peptide - Images

TPM2 Antibody (C-term) Blocking Peptide - Background

This gene encodes beta-tropomyosin, a member of the actin filament binding protein family, and mainly expressed in slow, type1 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) Blocking Peptide - 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)