10320 Camino Santa Fe, Suite G
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# TPM1 / Tropomyosin Antibody
**Rabbit Polyclonal Antibody**
**Catalog # ALS13626**

## Specification

### TPM1 / Tropomyosin Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC** |
| Primary Accession | P09493 |
| Reactivity | **Human, Mouse** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **33kDa KDa** |

### TPM1 / Tropomyosin Antibody - Additional Information

**Gene ID** 7168

**Other Names**
Tropomyosin alpha-1 chain, Alpha-tropomyosin, Tropomyosin-1, TPM1, C15orf13, TMSA

**Target/Specificity**
Human Tropomyosin 1. Predicted cross-reactivity based on amino acid sequence homology: mouse (99%), rat (88%), rabbit (88%), bovine (88%), pig (88%).

**Reconstitution & Storage**
Aliquot and store at -20°C. Minimize freezing and thawing.

**Precautions**
TPM1 / Tropomyosin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### TPM1 / Tropomyosin Antibody - Protein Information

**Name** TPM1

**Synonyms** C15orf13, TMSA

**Function**
Binds to actin filaments in muscle and non-muscle cells (PubMed:<a href="http://www.uniprot.org/citations/23170982" target="_blank">23170982</a>). Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction (PubMed:<a href="http://www.uniprot.org/citations/23170982" target="_blank">23170982</a>). Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments.

**Cellular Location**
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P04692}. Note=Associates with F-actin stress

fibers. {ECO:0000250|UniProtKB:P04692}

**Tissue Location**
Detected in primary breast cancer tissues but undetectable in normal breast tissues in Sudanese patients. Isoform 1 is expressed in adult and fetal skeletal muscle and cardiac tissues, with higher expression levels in the cardiac tissues. Isoform 10 is expressed in adult and fetal cardiac tissues, but not in skeletal muscle. {ECO:0000269|PubMed:15249230, ECO:0000269|Ref.15}

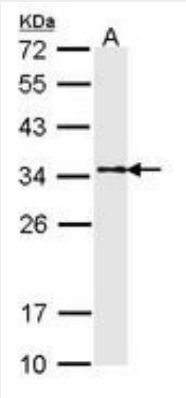
**Volume**
50 µl

## TPM1 / Tropomyosin Antibody - Protocols

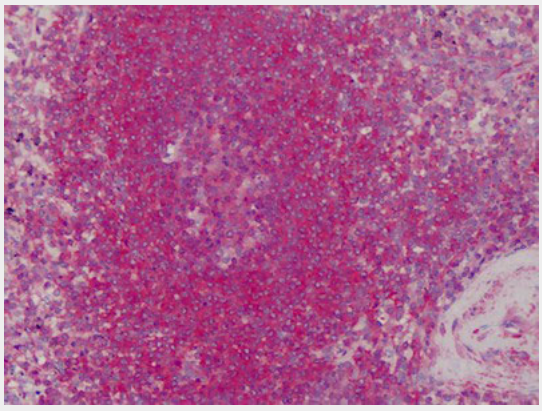
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## TPM1 / Tropomyosin Antibody - Images

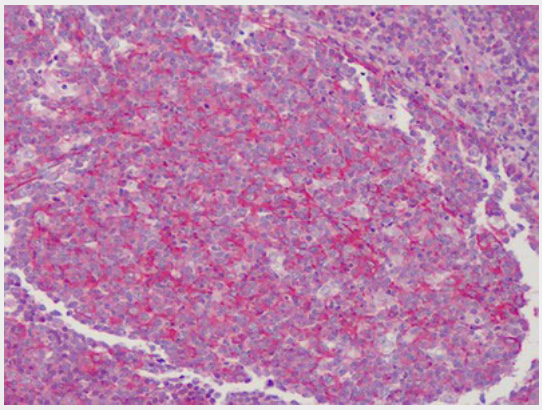



Sample (30 ug of whole cell lysate). A: A431. 12% SDS PAGE. TPM1 antibody diluted at 1:1000.



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Anti-Tropomyosin 1 antibody IHC of human spleen.



Anti-Tropomyosin 1 antibody IHC of human tonsil.

**TPM1 / Tropomyosin Antibody - Background**

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.

**TPM1 / Tropomyosin Antibody - References**

Mische S.M.,et al.Biochem. Biophys. Res. Commun. 142:813-818(1987).
Lin C.-S.,et al.Mol. Cell. Biol. 8:160-168(1988).
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