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Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) Antibody

Tropomyosin-1 alpha phospho S283 Antibody
Catalog # ASR5699

Specification

Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**Anti-Tropomyosin-1 alpha pS283 antibody is useful for ELISA, immunohistochemistry, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~32.7kDa corresponding to the appropriate cell lysate or extract.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Tropomyosin-1 alpha pS283 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide surrounding S283 human Tropomyosin-1 alpha pS283.**
Reconstitution Volume	**50 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**

Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) Antibody - Additional Information

Gene ID 7168

Other Names
7168

Purity
Anti-Tropomyosin-1 alpha pS283 was affinity purified from monospecific antiserum by immunoaffinity chromatography and is directed against the phosphorylated form of human S283 residue. A BLAST analysis was used to suggest cross-reactivity with mouse and human based on 100% sequence homology. Cross-reactivity with Tropomyosin-1 alpha pS283 from other sources has not been determined.

Storage Condition
Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C

or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) Antibody - Protein Information

Name TPM1

Synonyms C15orf13, TMSA

Function
Binds to actin filaments in muscle and non-muscle cells (PubMed:23170982). Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction (PubMed:23170982). 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}

Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) 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

Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) Antibody - Images

Anti-Tropomyosin-1 alpha phosphoS283 (RABBIT) Antibody - Background

Anti-Tropomyosin-1 alpha pS283 antibody attaches to actin filaments in muscle and non-muscle cells, a large factor in the calcium dependent regulation of muscle contraction. Anti-Tropomyosin-1 alpha pS283 antibody is ideal for researchers interested in Signal Transduction and Cardiovascular research.