

Datasheet for ABIN3021578
anti-Tropomyosin antibody (AA 1-245)

5 Images

1 Publication

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Tropomyosin (TPM1)
Binding Specificity:	AA 1-245
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-245 of human Tropomyosin 1 (NP_001018008.1).
Sequence:	MAGSSSLEAV RRKIRSLQEQ ADAAEERAGT LQRELDHERK LRETAEADVA SLNRRIQLVE EELDRAQERL ATALQKLEEA EKAADESERG MKVIESRAQK DEEKMEIQEI QLKEAKHIAE DADRKYEEVA RKLVIIESDL ERAEERAELS EGKCAELEEE LKTVTNNLKS LEAQAEKYSQ KEDRYEEIEK VLSDKLKEAE TRAEFAERSV TKLEKSIDDL EDQLYQQLEQ NRRLTNELKL ALNED
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Characteristics:	Polyclonal Antibodies

Target Details

Target:	Tropomyosin (TPM1)
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Target Details

Alternative Name:	TPM1 (TPM1 Products)
Background:	<p>This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy.,TPM1,C15orf13,CMD1Y,CMH3,HEL-S-265,HTM-alpha,LVNC9,TMSA,Signal Transduction,Cell Biology & Developmental Biology,Cytoskeleton,Microfilaments,Actins,Cardiovascular,Heart,Hypertrophy,TPM1</p>
Molecular Weight:	26 kDa/28 kDa/32 kDa
Gene ID:	7168
UniProt:	P09493
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

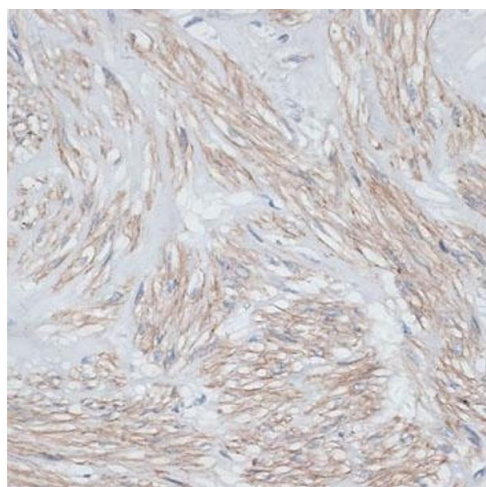
Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

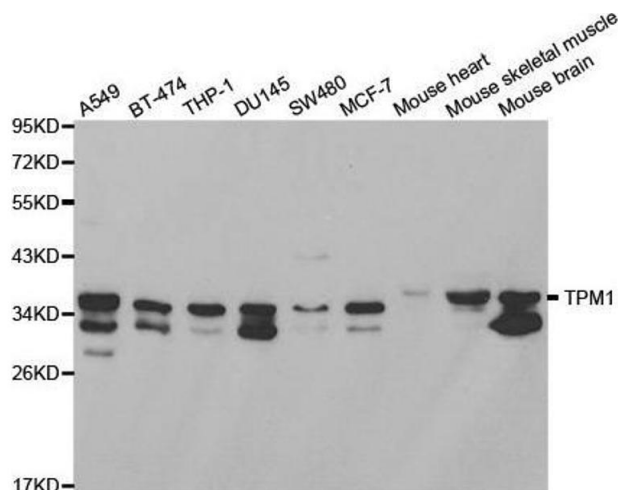
Product cited in: Wu, Lou, Ge, Xiong: "Quantitative Proteomics Analysis Reveals Novel Targets of miR-21 in Zebrafish Embryos." in: **Scientific reports**, Vol. 7, Issue 1, pp. 4022, (2018) ([PubMed](#)).

Images



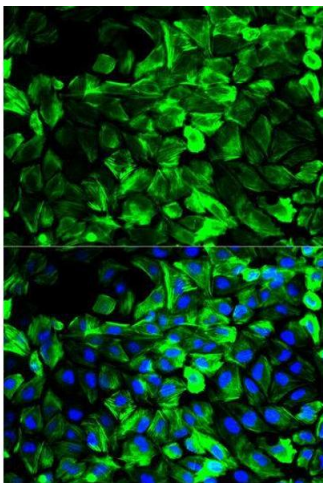
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human uterus using Tropomyosin 1 antibody (ABIN3021577, ABIN3021578, ABIN3021579, ABIN1513635 and ABIN6215262) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using TPM1 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of HeLa cell using TPM1 antibody. Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3021578.