

## ARG59778 anti-Tropomyosin 2 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Tropomyosin 2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Tropomyosin 2
Species	Human
Immunogen	Synthetic peptide of Human Tropomyosin 2.
Conjugation	Un-conjugated
Alternate Names	Tropomyosin beta chain; Beta-tropomyosin; TMSB; AMCD1; NEM4; HEL-S-273; DA1; DA2B; Tropomyosin-2

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse lung and SW620	
Observed Size	36 kDa	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

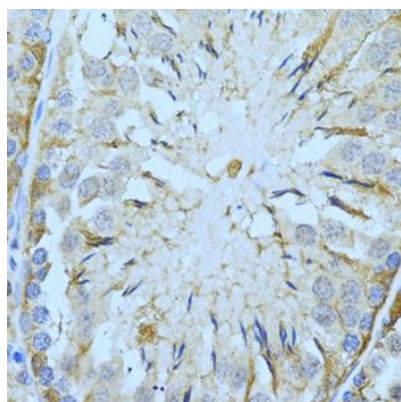
For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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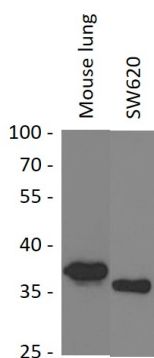
Gene Symbol	TPM2
Gene Full Name	tropomyosin 2 (beta)
Background	This gene encodes beta-tropomyosin, a member of the actin filament binding protein family, and mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogyposis syndromes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]
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 (By similarity). [UniProt]
Calculated Mw	33 kDa
PTM	Phosphorylated on Ser-61 by PIK3CG. Phosphorylation on Ser-61 is required for ADRB2 internalization (By similarity). [UniProt]
Cellular Localization	Cytoplasm, cytoskeleton. Note=Associates with F-actin stress fibers. [UniProt]

## Images



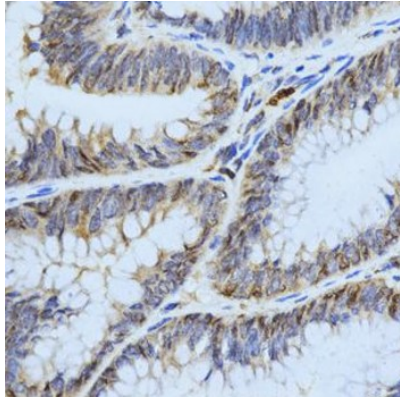
ARG59778 anti-Tropomyosin 2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG59778 anti-Tropomyosin 2 antibody at 1:200 dilution.



ARG59778 anti-Tropomyosin 2 antibody WB image

Western blot: 25 µg of Mouse lung and SW620 cell lysate stained with ARG59778 anti-Tropomyosin 2 antibody at 1:400 dilution.



**ARG59778 anti-Tropomyosin 2 antibody IHC-P image**

Immunohistochemistry: Paraffin-embedded Human rectal cancer stained with ARG59778 anti-Tropomyosin 2 antibody at 1:200 dilution.