

# Product datasheet

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# ARG62653 anti-Tropomyosin (sarcomeric) antibody [CH1]

Package: 100 μl Store at: -20°C

#### **Summary**

Product Description Mouse Monoclonal antibody [CH1] recognizes Tropomyosin

Tested Reactivity Hu, Rat

Tested Application FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB

Specificity specific for human striated muscle forms of tropomyosin, including cardiac alpha tropomyosin and

skeletal muscle forms of tropomyosin. Reacts with human striated muscle forms of tropomyosin. Not

cross-react with smooth muscle or non-muscle isoforms of tropomyosin.

Host Mouse

Clonality Monoclonal

Clone CH1

Isotype IgG1

Target Name Tropomyosin

Species Chicken

Immunogen Purified chicken muscle tropomyosin.

Conjugation Un-conjugated

Alternate Names C15orf13; Tropomyosin alpha-1 chain; TMSA; CMD1Y; HEL-S-265; HTM-alpha; CMH3; Tropomyosin-1;

LVNC9; Alpha-tropomyosin

## **Application Instructions**

Application table	Application	Dilution
	FACS	1 μg/10^6 cells
	ICC/IF	1:10 - 1:500
	IHC-Fr	2 - 4 μg/ml
	IHC-P	2 - 4 μg/ml
	IP	Assay-dependent
	WB	1:50 - 1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human tongue, heart and chicken heart	

#### **Properties**

Form	Liquid
Purification	Protein G purified

Buffer 10mM PBS (pH 7.4), 0.2% BSA and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Stabilizer 0.2% BSA

Concentration 0.2 mg/ml

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 or below. 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**

Database links GenelD: 24851 Rat

GeneID: 7168 Human

Swiss-port # P04692 Rat

Swiss-port # P09493 Human

Gene Symbol TPM1

Gene Full Name tropomyosin 1 (alpha)

Background Tropomyosin is a dimeric coiled coil protein that binds along the length of actin filaments. Non-muscle

forms of tropomyosin have been identified in a wide range of cell types.

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. [UniProt]

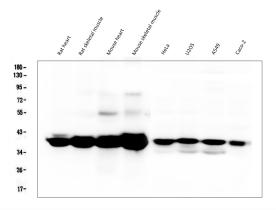
Research Area Cell Biology and Cellular Response antibody; Signaling Transduction antibody

Calculated Mw 33 kDa

PTM Phosphorylated at Ser-283 by DAPK1 in response to oxidative stress and this phosphorylation enhances

stress fiber formation in endothelial cells.

#### **Images**



### ARG62653 anti-Tropomyosin (sarcomeric) antibody [CH1] WB image

Western blot: 50  $\mu g$  of Rat heart, Rat skeletal muscle, Mouse heart, Mouse skeletal muscle, HeLa, U2OS, A549 and Caco-2 cell lysates stained with ARG62653 anti-Tropomyosin (sarcomeric) antibody [CH1] at 0.5  $\mu g/ml$ , overnight at 4°C.