

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	GeneID: 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 µg 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 µg/ml, overnight at 4°C.