

ARG59727 anti-Tropomyosin 4 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Tropomyosin 4
Tested Reactivity	Hu
Predict Reactivity	Pig
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Tropomyosin 4
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 26-54 of Human Tropomyosin 4.
Conjugation	Un-conjugated
Alternate Names	HEL-S-108; Tropomyosin-4; Tropomyosin alpha-4 chain; TM30p1

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	

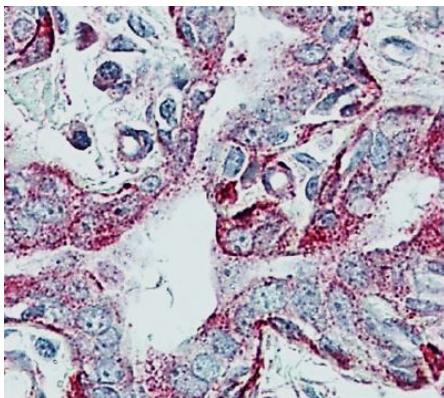
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
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

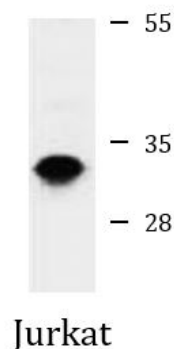
Gene Symbol	TPM4
Gene Full Name	tropomyosin 4
Background	This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 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. Binds calcium. [UniProt]
Calculated Mw	29 kDa
Cellular Localization	Cytoplasm, cytoskeleton. Note=Associates with F-actin stress fibers. [UniProt]

Images



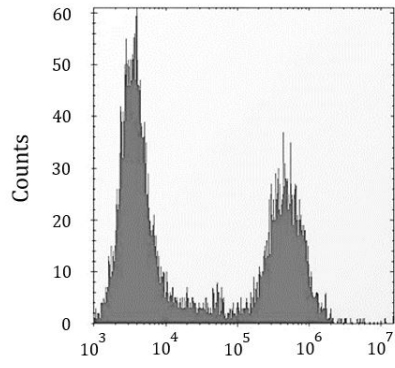
ARG59727 anti-Tropomyosin 4 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast stained with ARG59727 anti-Tropomyosin 4 antibody.



ARG59727 anti-Tropomyosin 4 antibody WB image

Western blot: 35 µg of Jurkat cell lysate stained with ARG59727 anti-Tropomyosin 4 antibody.



ARG59727 anti-Tropomyosin 4 antibody FACS image

Flow Cytometry: U251 cells stained with ARG59727 anti-Tropomyosin 4 antibody (right histogram) or without primary antibody as control (left histogram), followed by incubation with FITC labelled secondary antibody.