

ARG59754 anti-Tropomyosin 4 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Tropomyosin 4
Tested Reactivity	Hu, Ms, Pig
Predict Reactivity	Cow, Rat, Dog
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Tropomyosin 4
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human Tropomyosin 4. (NP_001138632.1; NP_003281.1. C-ENVGLHQTLDQ)
Conjugation	Un-conjugated
Alternate Names	HEL-S-108; Tropomyosin-4; Tropomyosin alpha-4 chain; TM30p1

Application Instructions

Application table	Application	Dilution
	IHC-P	2.5 µg/ml
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 32 kDa	

Properties

Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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

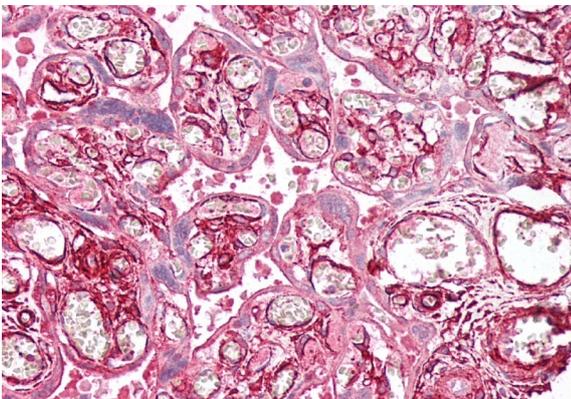
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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

Bioinformation

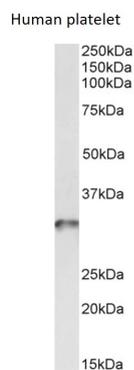
Gene Symbol	TPM4
Gene Full Name	tropomyosin 4
Background	This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize 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



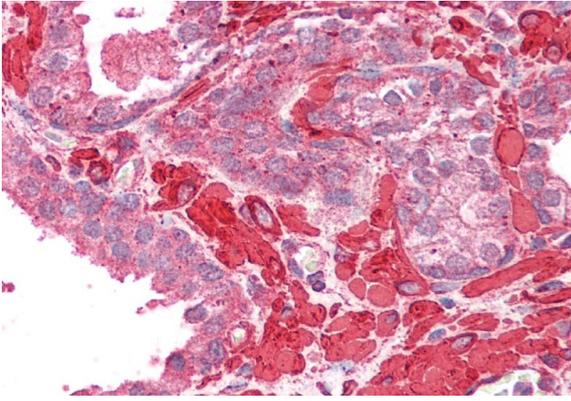
ARG59754 anti-Tropomyosin 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG59754 anti-Tropomyosin 4 antibody at 2.5 µg/ml dilution followed by AP-staining.



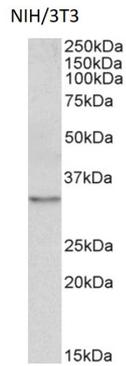
ARG59754 anti-Tropomyosin 4 antibody WB image

Western blot: 35 µg of Human platelet lysate (in RIPA buffer) stained with ARG59754 anti-Tropomyosin 4 antibody at 0.03 µg/ml dilution and incubated at RT for 1 hour.



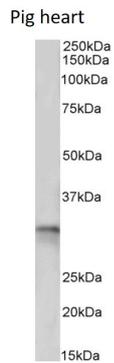
ARG59754 anti-Tropomyosin 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostate tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG59754 anti-Tropomyosin 4 antibody at 2.5 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.



ARG59754 anti-Tropomyosin 4 antibody WB image

Western blot: 35 μg of NIH/3T3 cell lysate (in RIPA buffer) stained with ARG59754 anti-Tropomyosin 4 antibody at 0.1 $\mu\text{g}/\text{ml}$ dilution and incubated at RT for 1 hour.



ARG59754 anti-Tropomyosin 4 antibody WB image

Western blot: 35 μg of Pig heart lysate (in RIPA buffer) stained with ARG59754 anti-Tropomyosin 4 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution and incubated at RT for 1 hour.