abcam

Product datasheet

Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] ab133292

Recombinant RabMAb

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Overview

Product name	Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159]
Description	Rabbit monoclonal [EPR5159] to Tropomyosin 1 (alpha) + Tropomyosin 3
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Pig
Immunogen	Synthetic peptide within Human Tropomyosin 1 (alpha) aa 250-350 (C terminal). The exact sequence is proprietary.
Positive control	Human skeletal muscle, Human heart, HUVEC, C6, RAW 264.7, PC12 and NIH 3T3 cell lysates; Human muscle tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5159
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133292 in the following tested applications.

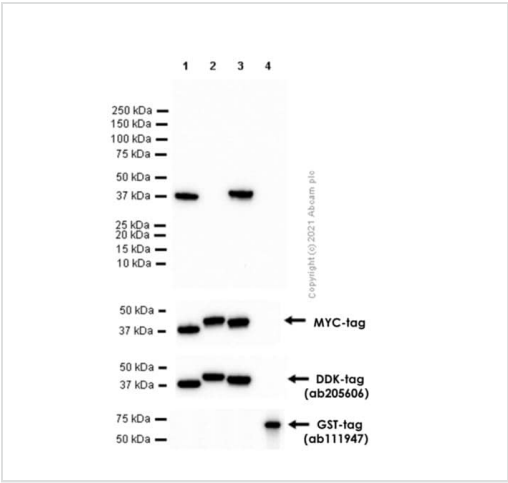
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(1)**	1/1000 - 1/10000. Detects a band of approximately 32-41 kDa (predicted molecular weight: 33 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Cellular localization Tropomyosin 1 (alpha): Cytoplasm > cytoskeleton. Tropomyosin 3: Cytoplasm > cytoskeleton.

Images



Western blot - Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] (ab133292)

All lanes : Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] (ab133292) at 1/1000 dilution

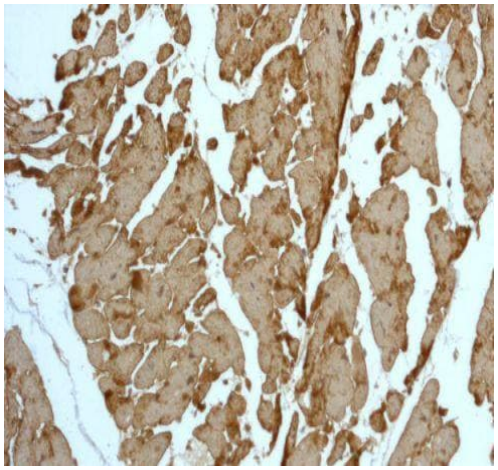
Lane 1 : MYC and DDK-tagged Recombinant Human TPM1 protein (Full length)
Lane 2 : MYC and DDK-tagged Recombinant Human TPM2 protein (Full length)
Lane 3 : MYC and DDK-tagged Recombinant Human TPM3 protein (Full length)
Lane 4 : GST-tagged Recombinant Human TPM4 protein (Full length)

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG (H+L) Peroxidase conjugated)

Predicted band size: 33 kDa

Blocking and Diluting buffer and concentration: 5% NFDM/TBST.

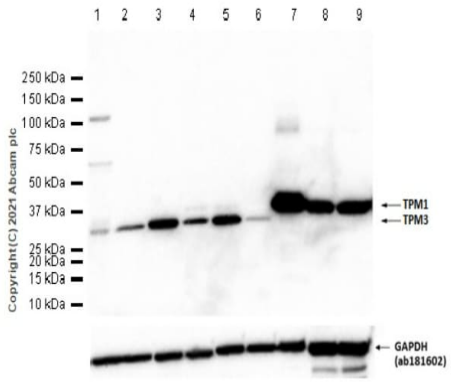
Exposure time: 20 seconds.



Immunohistochemical analysis of paraffin-embedded Human muscle tissue labelling Tropomyosin 1 (alpha) with ab133292 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] (ab133292)



Western blot - Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] (ab133292)

All lanes : Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] (ab133292) at 1/1000 dilution

Lane 1 : HT-1080 (Human fibrosarcoma epithelial cell) whole cell lysate
Lane 2 : HUVEC (Human umbilical vein endothelial cell) whole cell lysate
Lane 3 : Raw264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lane 4 : NIN/3T3 (Mouse embryonic fibroblast) whole cell lysate
Lane 5 : C6 (Rat glial tumor glial cell) whole cell lysate
Lane 6 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate
Lane 7 : Human skeletal muscle tissue lysate
Lane 8 : Mouse skeletal muscle tissue lysate
Lane 9 : Rat skeletal muscle tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

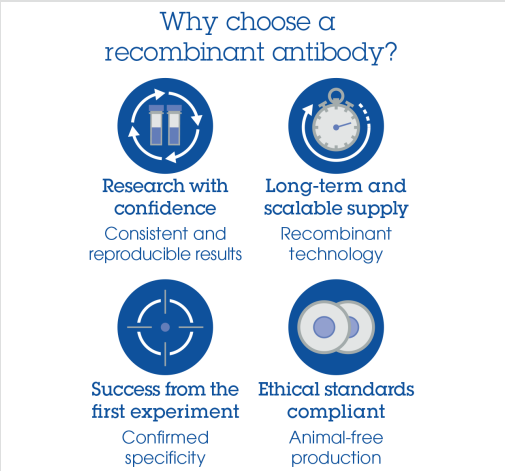
Predicted band size: 33 kDa
Observed band size: 32,37 kDa

Exposure time: 10 seconds

Blocking and Diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

The band sizes observed are consistent with PMID: 9168473, PMID: 22965424, PMID: 16765662.



Anti-Tropomyosin 1 (alpha) + Tropomyosin 3 antibody [EPR5159] (ab133292)

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