

Anti-TPM1 Antibody (5W651)

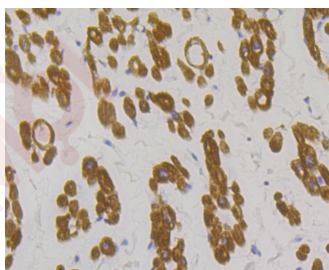
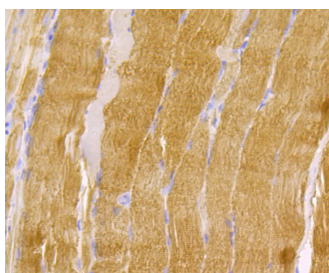
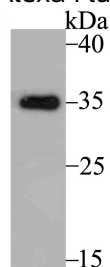
Product Details

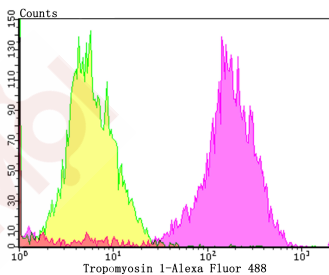
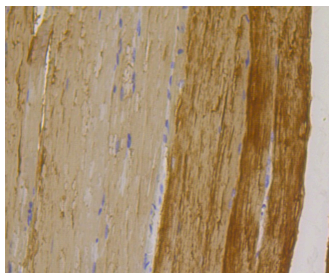
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 33 kDa.
Clone:	5W651
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Tropomyosin 1 on rat heart tissue using anti-Tropomyosin 1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat smooth muscle tissue using anti-Tropomyosin 1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human heart tissue using anti-Tropomyosin 1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-Tropomyosin 1 antibody. Counter stained with hematoxylin.
5. Flow cytometric analysis of MCF-7 cells with Tropomyosin 1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.





Application: FCM,IHC,WB
Recommended WB: 1:500-2000; IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: human Tropomyosin 1 aa 100-300
Antigen Species: Human
Uniprot ID: P09493
Synonyms: TPMA;Alpha-tropomyosin;Tropomyosin-1;Tropomyosin alpha-1 chain;TPM1

Research Background

Tropomyosins are a group of structural proteins. Tropomyosins are present in virtually all eukaryotic cells, both muscle and non-muscle, where they bind Actin filaments and function to modulate Actin-Myosin interaction and stabilize Actin filament structure. Tropomyosin α is encoded by the TPM1 gene, which maps to human chromosome 15q22.1 and undergoes alternative splicing to generate at least four isoforms, including skeletal muscle (isoform 1), smooth muscle (isoform 2), fibroblast/TM3 (isoform 3) and isoform 4. Tropomyosin β is encoded by the TPM2 gene, which maps to human chromosome 9p13.3 and undergoes alternative splicing to generate three isoforms, including skeletal muscle (isoform 1), non-muscle/fibroblast TM36/epithelial TMe1 (isoform 2) and non-muscle (isoform 3). Troponin I binds Tropomyosin at a specific region and the association of Tropomyosin-Troponin with Actin filaments may increase the rigidity of Actin filaments. Tropomyosin also interacts with Caldesmon to regulate smooth muscle contraction.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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