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Datasheet for ABIN6945226  
**anti-Tropomyosin antibody**

## Overview

Quantity:	100 µL
Target:	Tropomyosin (TPM1)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This Tropomyosin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	Recombinant protein within human Tropomyosin 1 aa 100-300.
Clone:	2G2
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

## Target Details

Target:	Tropomyosin (TPM1)
Alternative Name:	Tropomyosin 1 ( <a href="#">TPM1 Products</a> )
Background:	Synonyms: Tropomyosin alpha-1 chain, Alpha-tropomyosin, Tropomyosin-1, TPM1, C15orf13,

## Target Details

### TMSA

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  $\alpha$  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. 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.

Gene ID: 7168

UniProt: [P09493](#)

Pathways: [Regulation of Actin Filament Polymerization](#)

## Application Details

Application Notes: WB 1:300-5000  
FCM 1:20-100  
IHC-P 1:200-400

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1  $\mu$ g/ $\mu$ L

Buffer: Aqueous buffered solution containing 1xTBS ( pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months