

# Anti-Tropomyosin(36/39 kDa) Antibody (Monoclonal, TM31)

Catalog Number: MA1095

## Description

Gene Name	tropomyosin 1(alpha)
Protein Name	Tropomyosin alpha-1 chain
Size	100µg/vial
Form	Lyophilized
Ig Type	Mouse IgG1
Purification	Ascites
Species	Chicken, Human, Mouse, Rat
Immunogen	Chicken gizzard tropomyosin.
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN <sub>3</sub> as preservative.
Clonality	Monoclonal
Clone Number	TM31

## Applications

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	2-4µg/ml	Human, mouse, rat, chicken	-	

*Other applications have not been tested.*

*Optimal dilutions should be determined by end users.*

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## Preparation and storage

Reconstitution:	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
Storage:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

## Relevant detection systems

Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.

## Background

The tropomyosins are a family of actin filament binding proteins. These proteins were first isolated from skeletal muscle, but later identified in many nonmuscle tissues. Tropomyosins are ubiquitous proteins of 35 to 45 kD associated with the actin filaments of myofibrils and stress fibers.

Vertebrates have at least 4 different tropomyosin genes; in humans, they are named TPM1, TPM2, TPM3, and TPM4. Tropomyosins expressed as different isoforms in muscle and non-muscle cells.

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