

## Anti-Myosin 1G MYO1G Antibody

Catalog Number: A08448

### About MYO1G

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. In general, myosins are protein complexes consisting of one or more myosin heavy chains, associated light chains and other proteins. Myosins function as molecular motors and use the energy of ATP hydrolysis to move actin filaments or to move vesicles or other cargo on fixed actin filaments. Myosins have magnesium-ATPase activity and bind actin. Myosins can be divided into classes that are distinguished based on sequence features of the motor, or head domain, but also have distinct tail regions that are believed to bind specific cargoes. Unconventional myosins exist. Myosin 1G is an unconventional myosin that is restricted to hematopoietic cells. Unconventional myosins are also critical for motility in amoeba and a mammalian paralog (Myo1C) is critical as a glucose transporter that recycles glucose in response to insulin.

### Overview

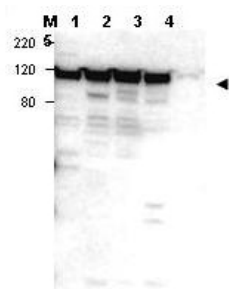
Product Name	Anti-Myosin 1G MYO1G Antibody
Reactive Species	Human
Description	Boster Bio Anti-Myosin 1G MYO1G Antibody (Catalog # A08448). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	B0I1T2

### Technical Details

Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-terminal region of human Myosin 1G protein.
Predicted Reactive Species	Chimpanzee
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid (sterile filtered)
Concentration	1.2 mg/mL by UV absorbance at 280 nm
Purification	This affinity-purified antibody is directed against human Myosin 1G protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with Myosin 1G from human, mouse, chimpanzee and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Myosin 1G from other sources has not been determined.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:10,000 - 1:40,000</p> <p>IP: 1:100</p> <p>WB: 1:500 - 1:3,000</p>

## Anti-Myosin 1G MYO1G Antibody (A08448) Images



Western blot analysis of Myosin 1G expression in Jurkat whole cell lysates (lane 1), peripheral blood T cells lysates (lane 2), human spleen extract (lane 3), 300.19 (lane 4) and 293 cells, appear negative for Myosin 1G (lane 5). Myosin 1G at 70KD was detected using rabbit anti-FBXL4 Antigen Affinity purified polyclonal antibody (Catalog # ) at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

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