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Datasheet for ABIN233814

anti-MYO1G antibody (Internal Region)

1 Image

1 Publication

Overview

Quantity:	100 µg
Target:	MYO1G
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MYO1G antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an of human Myosin 1G protein.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Chimpanzee, Rat (Rattus)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	MYO1G
Alternative Name:	Myosin 1G (MYO1G Products)
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear

Target Details

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.

Synonyms: Myosin-Ig Cleaved into the following chain: 1.Minor histocompatibility antigen HA-2 mHag HA-2

Gene ID: 64005, 239582755

UniProt: [B011T2](#)

Application Details

Application Notes: This affinity-purified antibody has been tested for use in ELISA, western blotting and possibly in immunoprecipitation as well. Specific conditions for reactivity should be optimized by the end user. By western blot a band approximately 100 kDa in size corresponding to Myosin 1G protein is expected in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.2 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

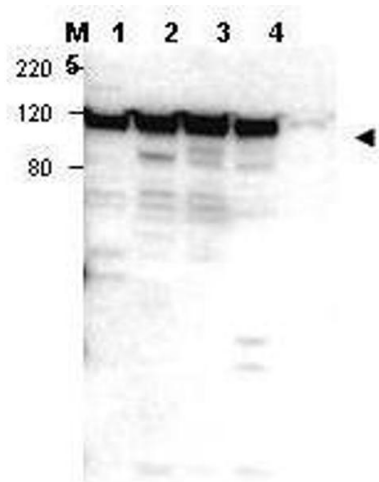
Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Publications

Product cited in: Gui, Xiong, Yang, Li, Huang: "Effects of acupuncture on LIF and IL-12 in rats of implantation failure." in: **American journal of reproductive immunology (New York, N.Y. : 1989)**, Vol. 67, Issue 5, pp. 383-90, (2012) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot using affinity purified anti-Myosin 1G antibody shows detection of a band ~100 kDa in size corresponding to Myosin 1G (arrowhead) in Myosin 1G positive whole cell lysate - lane 1 Jurkat, lane 2 peripheral blood T cells, lane 3 human spleen and lane 4 300.19. Lane 5, 293 cells, appear negative for Myosin 1G. Personal Communication. Stephen Shaw, NCI, Bethesda, MD.