

## Product datasheet

# Anti-Myosin 1G/HA2 antibody ab234854

[3 Images](#)

### Overview

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<b>Product name</b>	Anti-Myosin 1G/HA2 antibody
<b>Description</b>	Rabbit polyclonal to Myosin 1G/HA2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human Myosin 1G/HA2 aa 209-389. Database link: <a href="#">B011T2</a>
<b>Positive control</b>	IHC-P: Human appendix and lymphoid tissue. ICC/IF: HepG2 cells.
<b>General notes</b>	This product was previously labelled as Myosin 1G

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.03% Proclin Constituents: PBS, 50% Glycerol
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purity >95%
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab234854** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.
ICC/IF		1/50 - 1/200.

## Target

### Function

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments.

Precursor of the minor histocompatibility antigen HA-2. More generally, minor histocompatibility antigens (mHags) refer to immunogenic peptide which, when complexed with MHC, can generate an immune response after recognition by specific T-cells. The peptides are derived from polymorphic intracellular proteins, which are cleaved by normal pathways of antigen processing. The binding of these peptides to MHC class I or class II molecules and their expression on the cell surface can stimulate T-cell responses and thereby trigger graft rejection or graft-versus-host disease (GVHD) after hematopoietic stem cell transplantation from HLA-identical sibling donor. GVHD is a frequent complication after bone marrow transplantation (BMT), due to mismatch of minor histocompatibility antigen in HLA-matched sibling marrow transplants. HA-2 is restricted to MHC class I HLA-A\*0201.

### Tissue specificity

Specifically expressed in hematopoietic cells.

### Sequence similarities

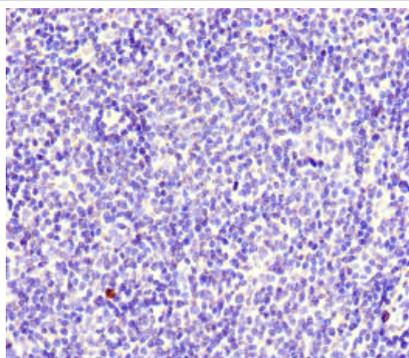
Contains 1 IQ domain.

Contains 1 myosin head-like domain.

### Cellular localization

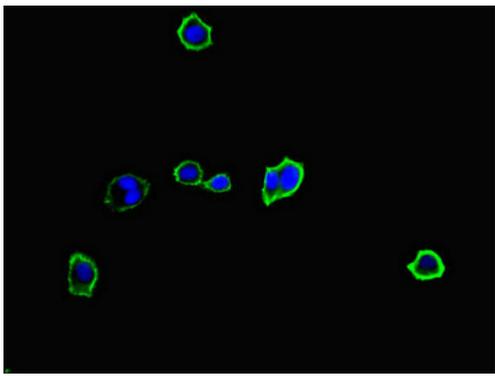
Cell membrane. Localization at the membrane is not highly dependent on phosphatidylinositol 4,5-bisphosphate levels. Released from the membrane in the presence of ATP. May be enriched in peripheral processes, such as microvilli or ruffles.

## Images



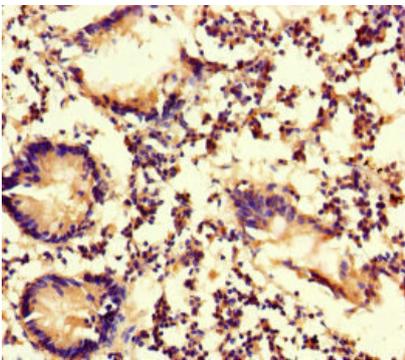
Paraffin-embedded human lymphoid tissue stained for Myosin 1G/HA2 using ab234854 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myosin 1G/HA2 antibody (ab234854)



Immunocytochemistry/ Immunofluorescence - Anti-Myosin 1G/HA2 antibody (ab234854)

HepG2 (human liver hepatocellular carcinoma cell line) cells labeling Myosin 1G/HA2 using ab234854 at 1/100 dilution in ICC/IF. Secondary antibody was an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (H+L).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myosin 1G/HA2 antibody (ab234854)

Paraffin-embedded human appendix tissue stained for Myosin 1G/HA2 using ab234854 at 1/100 dilution in immunohistochemical analysis.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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