

**HMHA1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6985c****Specification**

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**HMHA1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q92619](#)**HMHA1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 23526**Other Names**

Minor histocompatibility protein HA-1, Minor histocompatibility antigen HA-1, mHag HA-1, HMHA1, KIAA0223

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6985c](/products/AP6985c) was selected from the Center region of human HMHA1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HMHA1 Antibody (Center) Blocking Peptide - Protein Information****Name** ARHGAP45 ([HGNC:17102](#))**Function**

Contains a GTPase activator for the Rho-type GTPases (RhoGAP) domain that would be able to negatively regulate the actin cytoskeleton as well as cell spreading. However, also contains N-terminally a BAR- domain which is able to play an autoinhibitory effect on this RhoGAP activity.

**Cellular Location**

Cytoplasm. Cell projection, ruffle membrane

**Tissue Location**

Expressed on cells of the hematopoietic lineage. Detected in dendritic cells and epidermal Langerhans cells. Expressed in peripheral blood mononuclear cells, in all leukemia/lymphoma cell lines. Detected also in some solid tumors and tissues such as cancerous and non-cancerous tissue.

## **HMHA1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **HMHA1 Antibody (Center) Blocking Peptide - Images**

## **HMHA1 Antibody (Center) Blocking Peptide - Background**

The minor histocompatibility antigen (mHags), HA-1 is a immunogenic alloantigen shown to be responsible for graft-versus-host disease (GVHD) in HLA-identical bone marrow transplantation. The antigen has two known alleles resulting in a single amino acid polymorphism. The HA-1H allele encodes histidine, whereas the HA-1R allele encodes arginine.

## **HMHA1 Antibody (Center) Blocking Peptide - References**

Gillespie,G.,et.al., Hematol. J. 1 (6), 403-410 (2000)