

**HMHA1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6985c****Specification**

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**HMHA1 Antibody (Center) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | FC, IHC-P, WB,E        |
| Primary Accession | <a href="#">O92619</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 124614                 |
| Antigen Region    | 877-903                |

**HMHA1 Antibody (Center) - Additional Information****Gene ID** 23526**Other Names**

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

**Target/Specificity**

This HMHA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 877-903 amino acids from the Central region of human HMHA1.

**Dilution**

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HMHA1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**HMHA1 Antibody (Center) - 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**

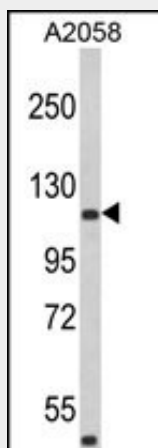
Expressed on cells of the hematopoietic lineage. Detected in dendritic cells and epidermal Langerhans cells. Expressed in peripheral blood mononuclear cells, in all leukemia/lymphoma cell lines. Detected also in some solid tumors and tissues such as cancerous and non-cancerous tissue.

**HMHA1 Antibody (Center) - Protocols**

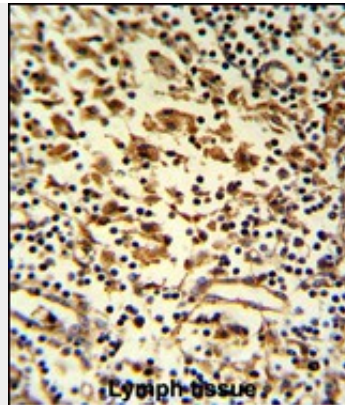
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

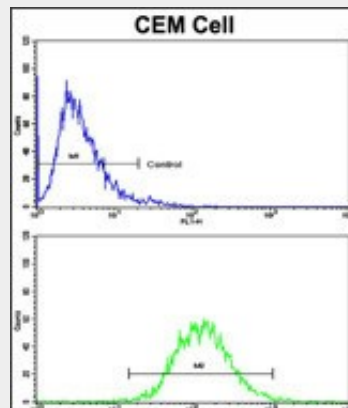
**HMHA1 Antibody (Center) - Images**



Western blot analysis of HMHA1 Antibody (Center) (Cat. #AP6985c) in A2058 cell line lysates (35ug/lane). HMHA1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lymph reacted with HMHA1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of CEM cells using HMHA1 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### HMHA1 Antibody (Center) - 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) - References

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