

## ARG44778 anti-ARHGAP45 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody recognizes ARHGAP45
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	ARHGAP45
Species	Human
Epitope	VDVLLQRCEG GVDAALLYAK NMAKYMKDLI SYLEKRTTLE MEFAKGLQKI AHNCRQSVMQ EPHMPLLSIY SLAEQDLEF GHSMVQAVGT LQTQTFMQPL TLRRLHEKR RKEIKEAWHR AQRKLQEAES NLRKAKQGYV QRCEDHDKAR FLVAKAEEEQ AGSAPGAGST ATKTLDKRRR LEEAKNKA EAMATYRTCV ADAKTQKQEL EDTKVTALRQ IQEVIRQSDQ TIKSATISYY QMMHMQTAPL PVHFQMLCES
Conjugation	Un-conjugated
Alternate Names	ARHGAP45; Rho GTPase Activating Protein 45; KIAA0223; HMHA1; HA-1; Rho GTPase-Activating Protein 45; Histocompatibility (Minor) HA-1; Minor Histocompatibility Antigen HA-1; Minor Histocompatibility Protein HA-1; HLA-HA1

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

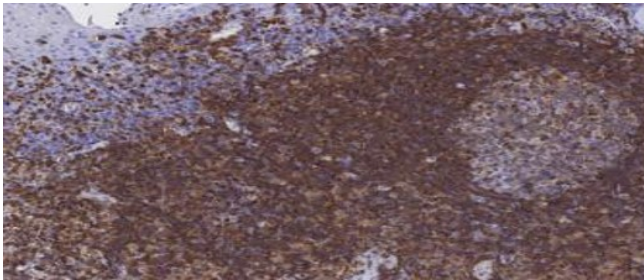
### Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
Preservative	0.09% sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ARHGAP45
Gene Full Name	Rho GTPase Activating Protein 45
Background	Predicted to enable GTPase activator activity. Predicted to be involved in activation of GTPase activity. Located in membrane. [provided by Alliance of Genome Resources, Apr 2022]
Function	Precursor of the histocompatibility antigen HA-1. 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 its 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. Specifically, mismatching for mHag HA-1 which is recognized as immunodominant, is shown to be associated with the development of severe GVHD after HLA-identical BMT. HA-1 is presented to the cell surface by MHC class I HLA-A*0201, but also by other HLA-A alleles. This complex specifically elicits donor-cytotoxic T-lymphocyte (CTL) reactivity against hematologic malignancies after treatment by HLA-identical allogenic BMT. It induces cell recognition and lysis by CTL. [Uniprot]
PTM	Phosphoprotein. [Uniprot]
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Membrane. [Uniprot]

Images



ARG44778 anti-ARHGAP45 antibody IHC-P image

Immunohistochemistry: Human tonsil stained with ARG44778 anti-ARHGAP45 antibody at 10 µg/mL dilution.



ARG44778 anti-ARHGAP45 antibody WB image

Western blot: Raji stained with ARG44778 anti-ARHGAP45 antibody at 1 µg/mL dilution.