abcam

ab314237

Anti-HA tag antibody [RM1058]

Lab Essentials | Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM1058
Purification technique	Affinity purification Protein A
Concentration	0.521 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Tag
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Tag
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Tag
Dilution info	1/500
Notes	-

Flow Cyt (Intra)

Tested

Species	Tag
Dilution info	1/5000
Notes	-

IP

Tested

Species	Tag
Dilution info	1/30
Notes	-

ChIP

Tested

Species	Tag
Dilution info	5 µg for 25 µg chromatin

Notes	-

Target data

See full target information HA

Function	Binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. This attachment induces virion internalization of about two third of the virus particles through clathrin-dependent endocytosis and about one third through a clathrin- and caveolin-independent pathway. Plays a major role in the determination of host range restriction and virulence. Class I viral fusion protein. Responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. Low pH in endosomes induces an irreversible conformational change in HA2, releasing the fusion hydrophobic peptide. Several trimers are required to form a competent fusion pore. Binds to sialic acid-containing receptors on the cell surface, bringing about the attachment of the virus particle to the cell. This attachment induces virion internalization either through clathrin-dependent endocytosis or through clathrin- and caveolin-independent pathway. Plays a major role in the determination of host range restriction and virulence. Class I viral fusion protein. Responsible for penetration of the virus into the cell cytoplasm by mediating the fusion of the membrane of the endocytosed virus particle with the endosomal membrane. Low pH in endosomes induces an irreversible conformational change in HA2, releasing the fusion hydrophobic peptide. Several trimers are required to form a competent fusion pore.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What are recombinant multiclonals?
Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

View our range of recombinant multiclonal antibodies.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

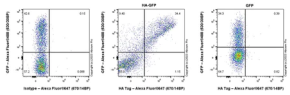
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

9 product images

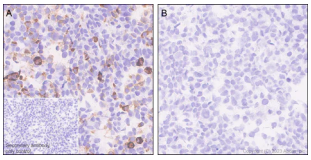


Flow Cytometry (Intracellular) - Anti-HA tag antibody [RM1058] (ab314237)

HA tag Flow Cytometry (Intracellular) staining using rabbit Anti-HA tag antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Left) / 293T cells transfected with a human HA Tag expression vector containing a GFP tag (Middle) / 293T cells transfected with an empty expression vector containing a GFP tag (Right) cells labelling HA tag with ab314237 at 1/5000 dilution (0.01 ug)/Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HA tag antibody [RM1058] (ab314237)

HA tag Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-HA tag antibody

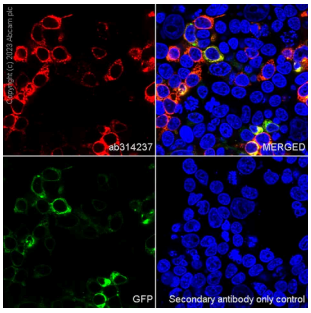
Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human embryonic kidney epithelial cell) transfected with a HA Tag expression vector. (B) HEK-293T transfected with empty vector. tissue labeling HA tag with ab314237 at 1/5000 (0.104 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) HEK-293T (human embryonic kidney epithelial cell) transfected with a HA Tag expression vector. No staining on (B) HEK-293T transfected with empty vector.
The section was incubated with ab314237 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody [RM1058] (ab314237)

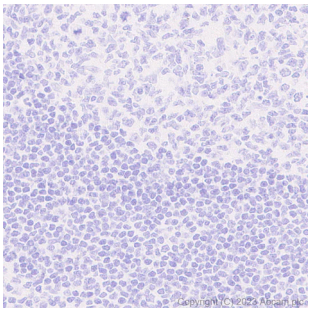
HA tag Immunocytochemistry/ Immunofluorescence staining of HEK-293T (human epithelial cell line from embryonic kidney) transfected with GFP-tagged human HA Tag expression vector using rabbit Anti-HA tag antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293T (human epithelial cell line from embryonic kidney) transfected with GFP-tagged human HA Tag expression vector cells labelling HA tag with ab314237 at 1/500 (1.042 ug/ml) dilution, followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) antibody at 1/1000 (2 ug/mL) dilution (Green).

Confocal image showing cytoplasmic staining in 293T cells transfected with a human HA Tag expression vector containing a GFP tag.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/1000 (2 ug/mL) dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HA tag antibody [RM1058] (ab314237)

HA tag Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human tonsil using rabbit Anti-HA tag antibody

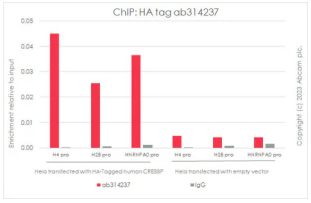
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling HA tag with ab314237 at 1/5000 (0.104 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on human tonsil.
The section was incubated with ab314237 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

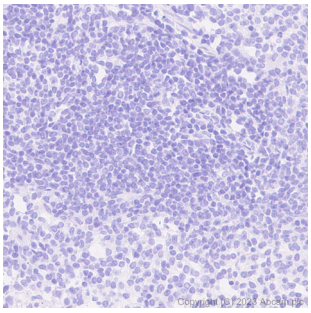
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



ChIP - Anti-HA tag antibody [RM1058] (ab314237)

Chromatin was prepared from Hela (human epithelial cell line from cervix adenocarcinoma) transfected with HA Tagged human CREBBP and Hela transfected with empty vector cells according to the Abcam Dual-X-ChIP protocol.Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.

The ChIP was performed with 25 µg of chromatin, 5 µg of ab314237 (red), or 5 µg of rabbit normal IgG ab172730 (gray) and 25 µl of Protein A/G Dynabeads. The immunoprecipitated DNA was quantified by real time PCR (SYBR green approach).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HA tag antibody [RM1058] (ab314237)

HA tag Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse spleen using rabbit Anti-HA tag antibody

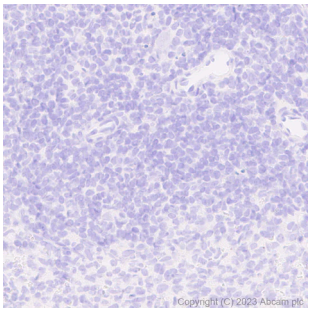
Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling HA tag with ab314237 at 1/5000 (0.104 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on mouse spleen.
The section was incubated with ab314237 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HA tag antibody [RM1058] (ab314237)

HA tag Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat spleen using rabbit Anti-HA tag antibody

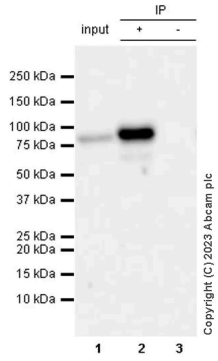
Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling HA tag with ab314237 at 1/5000 (0.104 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on rat spleen.
The section was incubated with ab314237 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunoprecipitation - Anti-HA tag antibody [RM1058] (ab314237)

HA tag was immunoprecipitated from 0.35 mg 293T (human embryonic kidney) transfected with TIM 4 (WT) expression vector containing a HA-myc-His-GFP-tag and PDGFR TM domain, whole cell lysate with ab314237 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab314237 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (ab131366) was used at 1/5000 dilution.

Lane 1: 293T (human embryonic kidney) transfected with TIM 4 (WT) expression vector containing a HA-myc-His-GFP-tag and PDGFR TM domain, whole cell lysate
Lane 2: ab314237 IP in 293T (human embryonic kidney) transfected with TIM 4 (WT) expression vector containing a HA-myc-His-GFP-tag and PDGFR TM domain, whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab314237 in 293T transfected with TIM 4 (WT) expression vector containing a HA-myc-His-GFP-tag and PDGFR TM domain, whole cell lysate

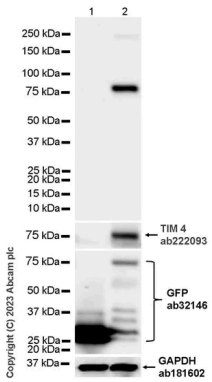
All lanes:
Immunoprecipitation - Anti-HA tag antibody [RM1058] (ab314237) at 1/30 dilution

All lanes:
293T (human embryonic kidney) transfected with TIM 4 (WT) expression vector containing a HA-myc-His-GFP-tag and PDGFR TM domain, whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 8s



Western blot - Anti-HA tag antibody [RM1058] (ab314237)

HA tag Western blot staining using rabbit Anti-HA tag antibody

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-GFP antibody [E385] (ab32146) staining at 1/10000 dilution.

In Western blot, Anti-TIM 4 antibody [EPR22304-3] (ab222093) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-HA tag antibody [RM1058] (ab314237) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney) transfected with an empty vector (vector control), containing a myc-GFP-tag, whole cell lysate at 20 µg

Lane 2:
293T transfected with TIM 4 (WT) expression vector containing a HA-myc-His-GFP-tag and PDGFR TM domain, whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 78 kDa, 36 kDa

Exposure time: 37s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.