

## Product datasheet

### Anti-HAI-1 antibody [EPR23294-49] $\alpha$ b272721

Recombinant RabMAb

9 Images

#### Overview

Product name	Anti-HAI-1 antibody [EPR23294-49]
Description	Rabbit monoclonal [EPR23294-49] to HAI-1
Host species	Rabbit
Specificity	Unsuitable for human and rat IHC-P.
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP <b>Unsuitable for:</b> IHC-Fr
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human and rat placenta tissue lysate. T47D whole cell lysate. Mouse large intestine, small intestine, placenta and stomach tissue lysate. ICC/IF: T47D cells. Flow Cyt (intra): T47D cells. IHC-P: Mouse testis and stomach tissue. IP: mouse placenta tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

<b>Clone number</b>	EPR23294-49
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab272721 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

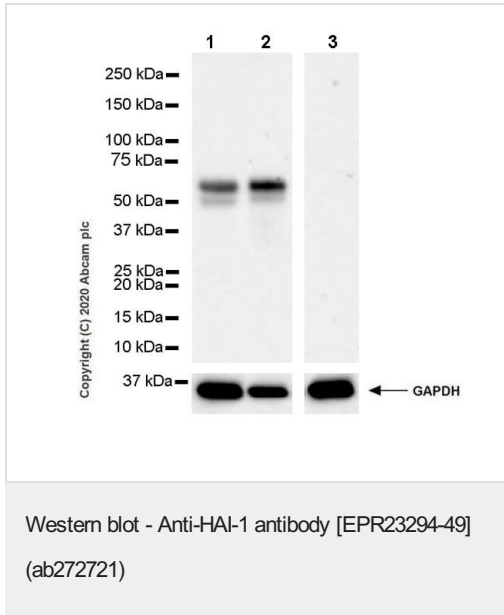
Application	Abreviews	Notes
<b>Flow Cyt (Intra)</b>		1/600. (0.1ug)
<b>WB</b>		1/1000. Detects a band of approximately 56, 66 kDa (predicted molecular weight: 58 kDa). (0.616 µg/ml).
<b>IHC-P</b>		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. This antibody is not suitable for human and rat species in IHC-P application.
<b>ICC/IF</b>		1/50.
<b>IP</b>		1/30. (2µg in 0.35mg lysates)

**Application notes** Is unsuitable for IHC-Fr.

## Target

<b>Function</b>	Inhibitor of HGF activator. Also acts as an inhibitor of matriptase (ST14).
<b>Sequence similarities</b>	Contains 2 BPTI/Kunitz inhibitor domains. Contains 1 LDL-receptor class A domain. Contains 1 MANSC domain.
<b>Domain</b>	This inhibitor contains two inhibitory domains.
<b>Cellular localization</b>	Secreted.

## Images



**All lanes :** Anti-HAI-1 antibody [EPR23294-49] (ab272721) at 1/1000 dilution

**Lane 1 :** Human placenta tissue lysate

**Lane 2 :** T47D (human ductal breast epithelial tumor epithelial cell), whole cell lysate

**Lane 3 :** Daudi (human Burkitts lymphoma lymphoblast), whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 58 kDa

**Observed band size:** 56,66 kDa

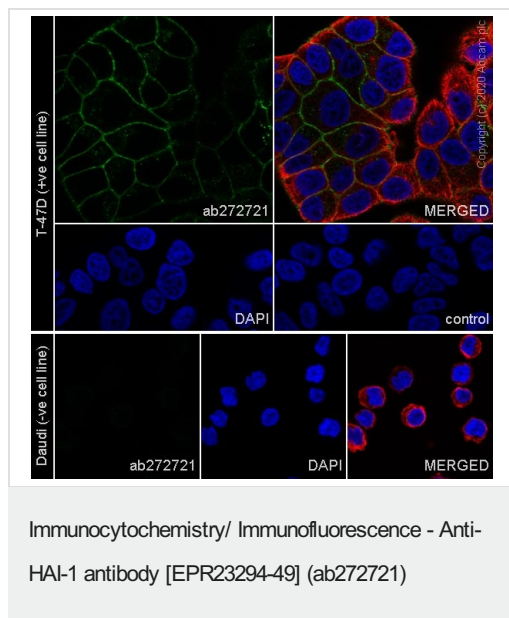
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

This blot was developed using a higher sensitivity ECL substrate.

**Low expression cell line:** Daudi (PMID:24070417).

The molecular weight observed is consistent with what has been described in the literature (PMID:11013244 ).

Exposure time: 3 minutes.

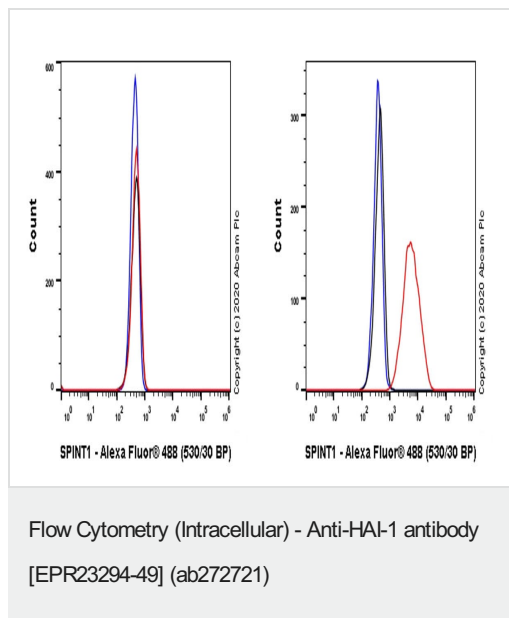


Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized T-47D cells labelling HAI-1 with ab272721 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 (2µg/ml) dilution (Green). Confocal image showing membranous staining in T-47D cell line.

**Negative control:** Daudi (PMID: 24070417).

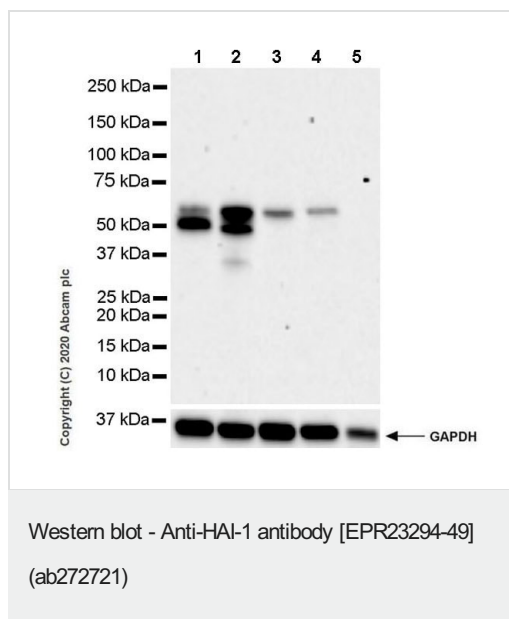
**ab195889** anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 (2µg/ml) dilution.



Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Daudi (Human Burkitt's lymphoma lymphoblast) (Left panel) / T-47D (Human ductal breast epithelial tumor epithelial cell) (Right panel) cells labelling HAI-1 with ab272721 at 1/600 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

**Negative control:** Daudi (PMID: 24070417).



**All lanes :** Anti-HAI-1 antibody [EPR23294-49] (ab272721) at 1/1000 dilution

**Lane 1 :** Mouse large intestine tissue lysate

**Lane 2 :** Mouse small intestine tissue lysate

**Lane 3 :** Mouse placenta tissue lysate

**Lane 4 :** Mouse stomach tissue lysate

**Lane 5 :** Mouse liver tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 58 kDa

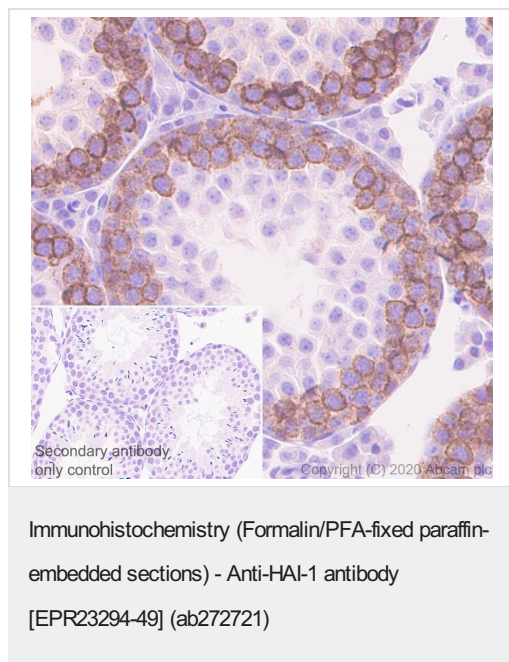
**Observed band size:** 56,66 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

**Low expression tissue:** liver (PMID:21840293).

The molecular weight observed is consistent with what has been described in the literature (PMID:11013244).

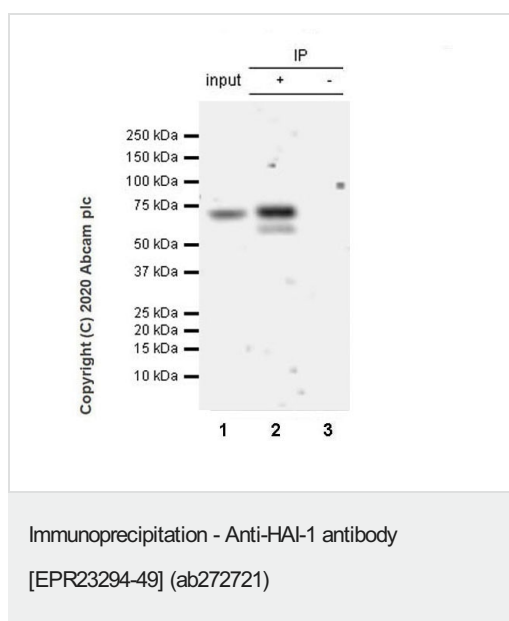
Exposure time: 3 minutes.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue labeling HAI-1 with ab272721 at 1/2000 followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on germ cells of mouse testis (PMID: 16740973). The section was incubated with ab272721 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



HAI-1 was immunoprecipitated from mouse placenta tissue lysate with ab272721 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab272721 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

**Lane 1:** Mouse placenta tissue lysate 10µg.

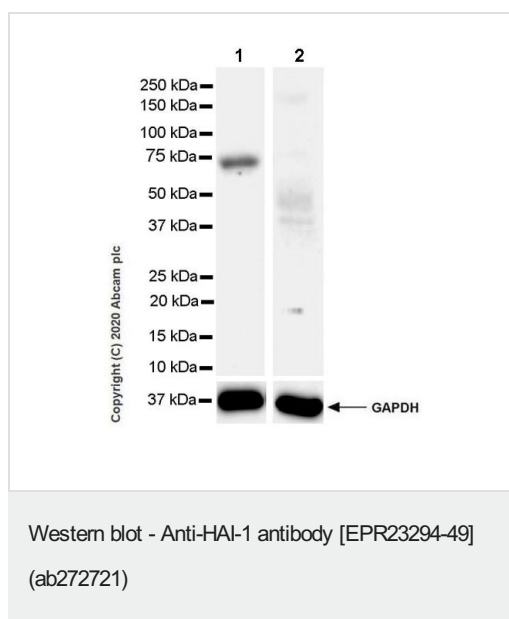
**Lane 2:** ab272721 IP in mouse placenta tissue lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab272721 in mouse placenta tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

This blot was developed using a higher sensitivity ECL substrate.



**All lanes :** Anti-HAI-1 antibody [EPR23294-49] (ab272721) at 1/1000 dilution

**Lane 1 :** Rat placenta tissue lysate

**Lane 2 :** Rat liver tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

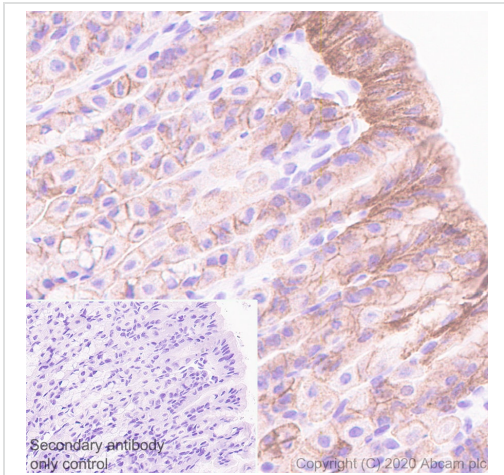
**Predicted band size:** 58 kDa

**Observed band size:** 66 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

**Low expression tissue:** liver (PMID:21840293).

Exposure time: 3 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HAI-1 antibody [EPR23294-49] (ab272721)

Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labeling HAI-1 with ab272721 at 1/2000 followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on mouse stomach. The section was incubated with ab272721 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-HAI-1 antibody [EPR23294-49] (ab272721)

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

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