

Product datasheet

Anti-Ago1 antibody [EPR25441-8] ab300152

Recombinant RabMAb

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Overview

Product name	Anti-Ago1 antibody [EPR25441-8]
Description	Rabbit monoclonal [EPR25441-8] to Ago1
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: ChIP, Flow Cyt (Intra), ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate, HeLa transfected with siRNA1 specifically targeting AGO1, whole cell lysate, HeLa transfected with siRNA2 specifically targeting AGO1, whole cell lysate, Rat heart tissue lysate. IP: Mouse lung tissue lysate, HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR25441-8
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab300152 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
WB		1/1000. Detects a band of approximately 97 kDa (predicted molecular weight: 97 kDa).
IP		1/30.

Application notes Is unsuitable for ChIP,Flow Cyt (Intra),ICC/IF or IHC-P.

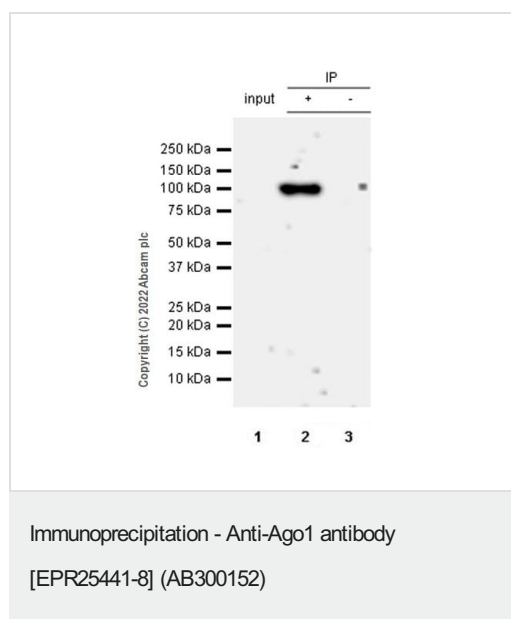
Target

Function Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) or short interfering RNAs (siRNAs), and represses the translation of mRNAs which are complementary to them. Lacks endonuclease activity and does not appear to cleave target mRNAs. Also required for transcriptional gene silencing (TGS) of promoter regions which are complementary to bound short antigene RNAs (agRNAs).

Sequence similarities Belongs to the argonaute family. Ago subfamily.
Contains 1 PAZ domain.
Contains 1 Piwi domain.

Cellular localization Cytoplasm > P-body.

Images



Ago1 was immunoprecipitated from mouse lung tissue lysate 10 µg with ab300152 at 1/30 dilution. **ab131366** was used as a secondary antibody at 1/5000 dilution.

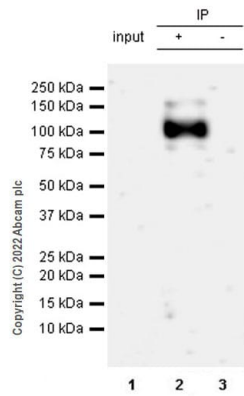
Lane 1(Input)
Mouse lung tissue lysate 10 µg

Lane 2(+)
Mouse lung tissue lysate

Lane 3(-)
Rabbit monoclonal IgG (**ab172730**) instead of ab300152 in mouse lung tissue lysate

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

Exposure time: 3 minutes.



Immunoprecipitation - Anti-Ago1 antibody [EPR25441-8] (AB300152)

Ago1 was immunoprecipitated from HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with ab300152 at 1.30 dilution. **ab131366** was used as a secondary antibody at 1/5000 dilution.

Lane 1 (Input)

HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg

Lane 2 (+)

HeLa whole cell lysate

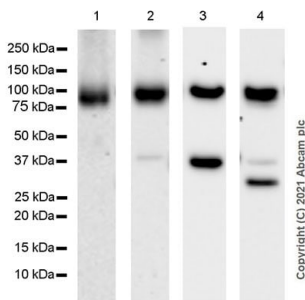
Lane 3 (-)

Rabbit monoclonal IgG (**ab172730**) instead of ab300152 in HeLa whole cell lysate

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

Exposure time: 3 minutes.

All lanes : Anti-Ago1 antibody [EPR25441-8] (ab300152) at 1/1000 dilution



Western blot - Anti-Ago1 antibody [EPR25441-8] (AB300152)

Lane 1 : Human lung tissue lysate

Lane 2 : Mouse lung tissue lysate

Lane 3 : Mouse heart tissue lysate

Lane 4 : Rat heart tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 97 kDa

Observed band size: 97 kDa

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

Exposure time:

Lane 1: 3 minutes

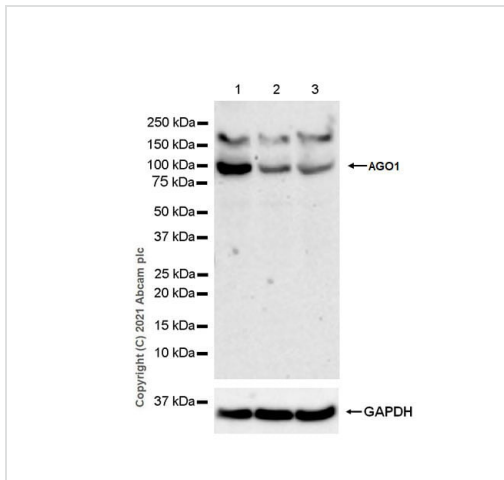
Lane 2: 92 seconds

Lane 3: 15 seconds

Lane 4: 37 seconds

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 29487329).

The identity of the lower MW band at approximately 37kDa is unknown.



Western blot - Anti-Ago1 antibody [EPR25441-8] (AB300152)

All lanes : Anti-Ago1 antibody [EPR25441-8] (ab300152) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : HeLa transfected with siRNA1 specifically targeting AGO1, whole cell lysate

Lane 3 : HeLa transfected with siRNA2 specifically targeting AGO1, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 97 kDa





Observed band size: 97 kDa

Exposure time: 3 minutes

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 29487329).

Why choose a recombinant antibody?

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

Anti-Ago1 antibody [EPR25441-8] (AB300152)

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