abcam

ab326882

Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free

Recombinant RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR31142-29
Purification technique	Affinity purification Protein A
Specificity	This antibody does not cross-react with Mouse Thy1.2 protein by ELISA and with overexpressed Mouse Thy1.2 protein in IHC-P.
Concentration	0.958 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Transfected cell line - Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

I-ELISA

Tested

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Mouse
Dilution info	-
Notes	-

IP

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Mouse, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Mouse, Recombinant fragment - Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Mouse, Recombinant fragment - Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Mouse, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Target data

See full target information Thy1

Function	May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab326882 is the carrier-free version of ab326876

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.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

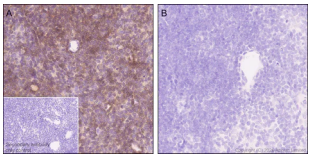
We do not recommend this combination. It is not covered by our product promise.

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.

13 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded (A) FVB/NCrl strain mouse thymus and (B) ICR (CD-1) strain mouse thymus tissue labeling with ab326876 at 1/100 (4.79 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) FVB/NCrl strain mouse thymus, no staining on (B) ICR (CD-1) strain mouse thymus.

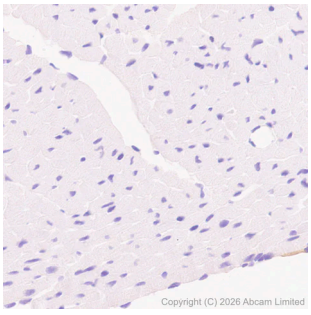
The primary antibody was incubated for 30 mins at room temperature.

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-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded FVB/NCrl strain mouse cardiac muscle tissue labeling with ab326876 at 1/100 (4.79 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

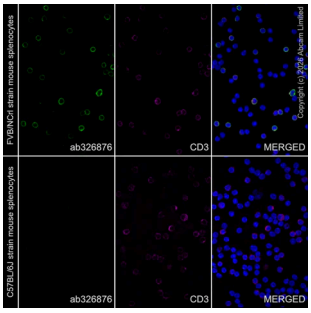
Low expression tissue: No staining on FVB/NCrl strain mouse cardiac muscle.

The primary antibody was incubated for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

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



Immunocytochemistry/ Immunofluorescence - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

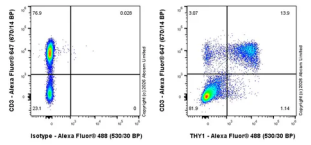
Thy1.1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized FVB/NCrl strain mouse splenocytes and C57BL/6J strain mouse splenocytes cells labelling with ab326876 at 1/50 (9.58 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing cytoplasmic staining in FVB/NCrl strain mouse splenocytes(shown in green), which is co-stained with the CD3 marker. The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Anti-mouse CD3 rat monoclonal antibody (Alexa Fluor® 647) was used to counterstain CD3 at 1/100 dilution (Magenta). The Nuclear counterstain was DAPI (Blue).



Flow Cytometry - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

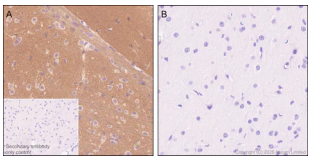
Thy1.1 Flow Cytometry staining of FVB/NCrl mouse spleen cell using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of FVB/NCrl mouse spleen cell labelling with ab326876 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells were co-stained with CD3 conjugated to Alexa Fluor®647.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded (A) FVB/NCrl strain mouse cerebrum and (B) ICR (CD-1) strain mouse cerebrum tissue labeling with ab326876 at 1/100 (4.79 µg/ml) dilution,

followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) FVB/NCrl strain mouse cerebrum, no staining on (B) ICR (CD-1) strain mouse cerebrum.

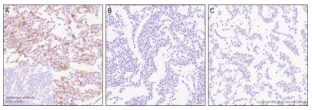
The primary antibody was incubated for 30 mins at room temperature.

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-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded
(A) HEK-293T (human embryonic kidney epithelial cell) transfected with a Thy1(Q108R) (corresponding to Thy1.1 protein) expression vector containing a his tag
(B) HEK-293T (human embryonic kidney epithelial cell) transfected with a Thy1 expression vector (corresponding to Thy1.1 protein) containing a his tag
(C) HEK-293T cells transfected with empty vector containing a myc-His-tag
labeling with ab326876 at 1/100 (4.79µg/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 Thy1(Q108R) (corresponding to Thy1.1 protein) expression vector containing a his tag, no staining on (B) HEK-293T (human embryonic kidney epithelial cell) transfected with a Thy1 expression vector (corresponding to Thy1.1 protein) containing a his tag and (C) HEK-293T cells transfected with empty vector containing a myc-His-tag.

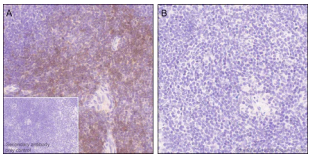
The primary antibody was incubated for 30 mins at room temperature.

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-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded (A) FVB/NCrl strain mouse spleen and (B) ICR (CD-1) strain mouse spleen tissue labeling with ab326876 at 1/100 (4.79 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) FVB/NCrl strain mouse spleen, no staining on (B) ICR (CD-1) strain mouse spleen.

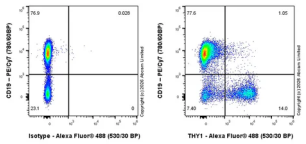
The primary antibody was incubated for 30 mins at room temperature.

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



Flow Cytometry - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

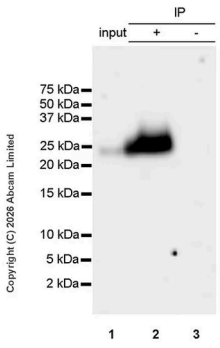
Thy1.1 Flow Cytometry staining of FVB/NCrl mouse spleen cell using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of FVB/NCrl mouse spleen cell labelling with ab326876 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells were co-stained with CD19 conjugated to PE/CY7.



Immunoprecipitation - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Thy1.1 was immunoprecipitated from 0.35 mg FVB/NCrl strain mouse thymus tissue lysate with ab326876 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab326876 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (ab131366) was used at 1/5000 dilution.

Lane 1: FVB/NCrl strain mouse thymus tissue lysate
Lane 2: ab326876 IP in FVB/NCrl strain mouse thymus tissue lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab326876 in FVB/NCrl strain mouse thymus tissue lysate

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

Exposure time: 15 seconds.
All lanes:
Immunoprecipitation - Anti-Thy1.1 antibody [EPR31142-29] (ab326876) at 1/1000 dilution

Lane 1:
FVB/NCrl strain mouse thymus tissue lysate at 10 µg

Lane 2:
ab326876 at 1/30 IP in FVB/NCrl strain mouse thymus tissue lysate

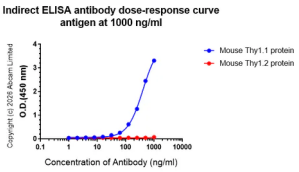
Lane 3:
Rabbit monoclonal IgG (ab172730) instead of ab326876 in FVB/NCrl strain mouse thymus tissue lysate

Secondary

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

Observed band size: 25 kDa

Exposure time: 15s



Indirect ELISA - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

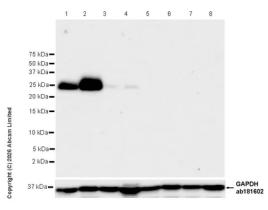
This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Indirect ELISA analysis of ab326876 at 1000-0 ng/ml. The Secondary antibody used was Peroxidase AffiniPure Goat Anti-Rabbit IgG, Fc fragment specific at 1:20000 dilution dilution.

Antigen: Mouse Thy1.1 protein;Mouse Thy1.2 protein.

Antigen concentration: 1000 ng/ml

This antibody does not cross-react with Mouse Thy1.2 protein by ELISA.



Western blot - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Western blot staining using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-Thy1.1 antibody [EPR31142-29] (ab326876) at 1/1000 dilution

Lane 1:
FVB/NCrl strain mouse spleen tissue lysate at 48 µg

Lane 2:
FVB/NCrl strain mouse thymus tissue lysate at 48 µg

Lane 3:
FVB/NCrl strain mouse heart tissue lysate at 48 µg

Lane 4:
FVB/NCrl strain mouse skeletal muscle tissue lysate at 48 µg

Lane 5:
C57BL/6J strain mouse spleen tissue lysate at 48 µg

Lane 6:
C57BL/6J strain mouse thymus tissue lysate at 48 µg

Lane 7:
ICR (CD-1) strain mouse spleen tissue lysate at 48 µg

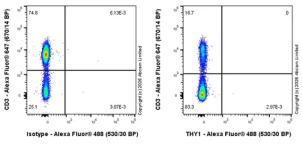
Lane 8:
ICR (CD-1) strain mouse thymus tissue lysate at 48 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 25 kDa, 36 kDa

Exposure time: 59s



Flow Cytometry - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

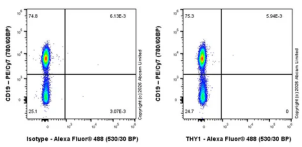
Thy1.1 Flow Cytometry staining of C57BL/6J mouse spleen cell using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of C57BL/6J mouse spleen cell labelling with ab326876 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells were co-stained with CD3 conjugated to Alexa Fluor®647.



Flow Cytometry - Anti-Thy1.1 antibody [EPR31142-29] - BSA and Azide free (ab326882)

Thy1.1 Flow Cytometry staining of C57BL/6J mouse spleen cell using rabbit Anti-Thy1.1 antibody

This data was developed using ab326876, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of C57BL/6J mouse spleen cell labelling with ab326876 at 1/5000 dilution (0.01ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.
Cells were co-stained with CD19 conjugated to PE/CY7.

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