abcam

ab322345

Anti-CD19 antibody [RM2072]

Recombinant | RabMAb | KO Validated | 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	RM2072
Purification technique	Affinity purification Protein A
Concentration	0.489 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse

Dilution info	1/1000
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50
Notes	-

Species	Mouse
Dilution info	1/50
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/50
Notes	-

Species	Mouse
Dilution info	1/50

Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Species	Mouse
Dilution info	1/30
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/100

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

Not recommended

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information CD19

Function	Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes (PubMed:29523808). Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:1373518, PubMed:16672701, PubMed:2463100). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:12387743, PubMed:16672701, PubMed:9317126, PubMed:9382888). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:1373518, PubMed:2463100). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:12387743, PubMed:16672701, PubMed:9317126).

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.

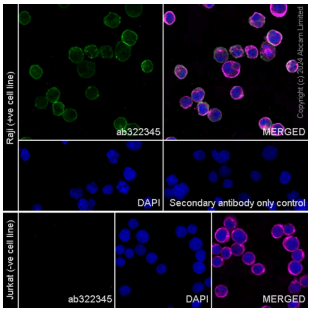
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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19 product images



Immunocytochemistry/ Immunofluorescence - Anti-CD19 antibody [RM2072] (ab322345)

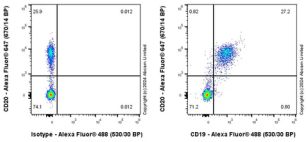
CD19 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD19 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Raji (human Burkitt's lymphoma B lymphocyte) cells labelling CD19 with ab322345 at 1/50 (9.78 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2ug/ml) dilution (Green).

Confocal image showing membranous staining in Raji cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue).
Negative control: Jurkat (PMID: 19147785).
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5ug/ml) dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2ug/ml) dilution.



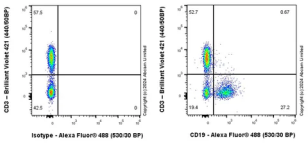
Flow Cytometry - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) cells using rabbit Anti-CD19 antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CD19 with ab322345 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.

Cells were co-stained with anti human CD20 conjugated to Alexa Fluor®647.
Gated on viable cells.



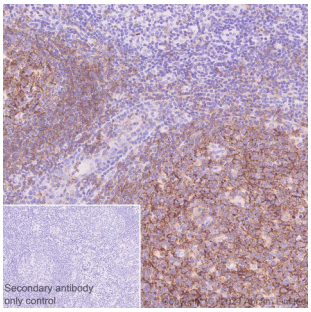
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CD19 Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) cells using rabbit Anti-CD19 antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling CD19 with ab322345 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.

Cells were co-stained with anti human CD3 conjugated to Brilliant Violet 421.
Gated on viable cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human tonsil tissue using rabbit Anti-CD19 antibody

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling CD19 with ab322345 at 1/100 (4.89 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

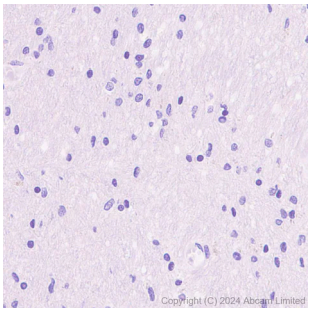
Positive staining in human tonsil.
The section was incubated with ab322345 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

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

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cerebrum tissue using rabbit Anti-CD19 antibody

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling CD19 with ab322345 at 1/100 (4.89 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

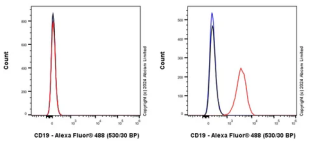
Low expression tissue: No staining in human cerebrum.
The section was incubated with ab322345 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

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

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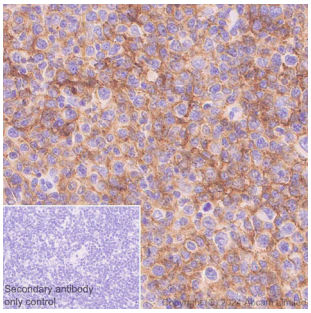
Flow Cytometry - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Flow Cytometry staining using rabbit Anti-CD19 antibody

Flow cytometric analysis of Raji (human Burkitt's lymphoma B lymphocyte) (Right) / Jurkat (human T cell leukemia T lymphocyte from peripheral blood) (Left) cells labelling CD19 with ab322345 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human non-Hodgkin's lymphoma tissue using rabbit Anti-CD19 antibody

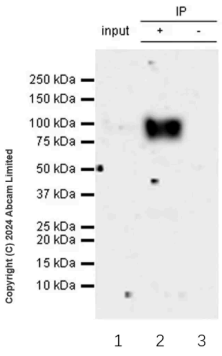
Immunohistochemical analysis of paraffin-embedded Human non-Hodgkin's lymphoma tissue labeling CD19 with ab322345 at 1/100 (4.89 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining in human non-Hodgkin's lymphoma.
The section was incubated with ab322345 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-CD19 antibody [RM2072] (ab322345)

CD19 was immunoprecipitated from 0.35 mg Raji whole cell lysate with ab322345 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab322345 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: Raji (human Burkitt's lymphoma B lymphocyte) whole cell lysate
Lane 2: ab322345 IP in Raji whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab322345 in Raji whole cell lysate

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

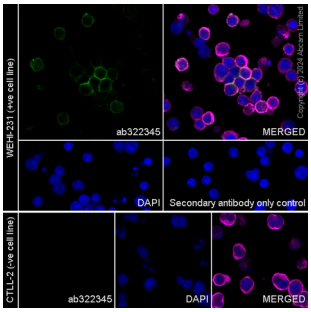
All lanes:
Immunoprecipitation - Anti-CD19 antibody [RM2072] (ab322345) at 1/30 dilution

All lanes:
Raji (human Burkitt's lymphoma B lymphocyte) whole cell lysate

Secondary

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

Exposure time: 81s



Immunocytochemistry/ Immunofluorescence - Anti-CD19 antibody [RM2072] (ab322345)

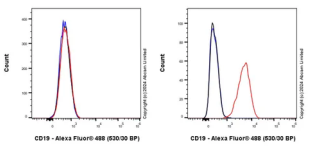
CD19 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD19 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized WEHI-231 (mouse B cell lymphoma B lymphocyte) cells labelling CD19 with ab322345 at 1/50 (9.78 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green).

Confocal image showing cytoplasmic staining in WEHI-231 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Negative control: CTLL-2 (PMID: 19147785).
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 ug/ml) dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/ml) dilution.



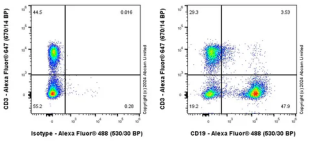
Flow Cytometry - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Flow Cytometry staining using rabbit Anti-CD19 antibody

Flow cytometric analysis of WEHI-231 (mouse B cell lymphoma B lymphocyte) (Right) / CTLL-2 (mouse T lymphocyte) (Left) cells labelling CD19 with ab322345 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.



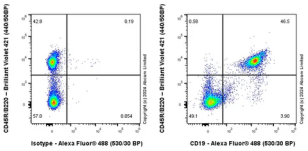
Flow Cytometry - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Flow Cytometry staining of Mouse PBMC (mouse peripheral blood mononuclear cell) cells using rabbit Anti-CD19 antibody

Flow cytometric analysis of Mouse PBMC (mouse peripheral blood mononuclear cell) cells labelling CD19 with ab322345 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.

Cells were co-stained with anti human CD3 conjugated to Brilliant Violet 421.
Gated on viable cells.



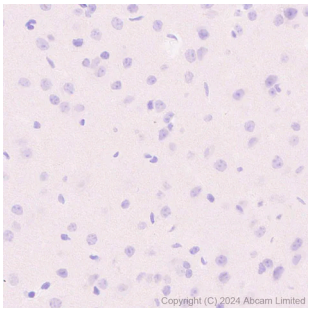
Flow Cytometry - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Flow Cytometry staining of Mouse PBMC (mouse peripheral blood mononuclear cell) cells using rabbit Anti-CD19 antibody

Flow cytometric analysis of Mouse PBMC (mouse peripheral blood mononuclear cell) cells labelling CD19 with ab322345 at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.

Cells were co-stained with anti human CD45R/B220 conjugated to Alexa Fluor®647 (660/20BP). Gated on viable cells.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse cerebrum tissue using rabbit Anti-CD19 antibody

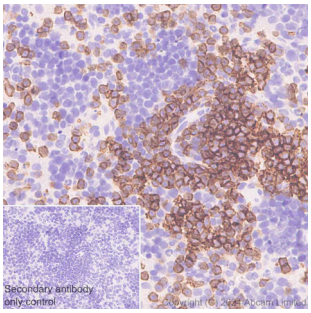
Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling CD19 with ab322345 at 1/100 (4.89 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression tissue: No staining in mouse cerebrum.
The section was incubated with ab322345 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-CD19 antibody [RM2072] (ab322345)

CD19 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse spleen tissue using rabbit Anti-CD19 antibody

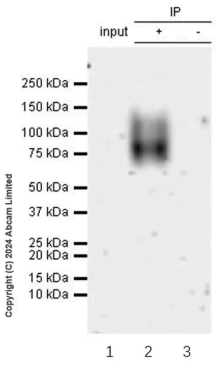
Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling CD19 with ab322345 at 1/100 (4.89 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining in mouse spleen.
The section was incubated with ab322345 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-CD19 antibody [RM2072] (ab322345)

CD19 was immunoprecipitated from 0.35 mg WEHI-231 whole cell lysate with ab322345 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab322345 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: WEHI-231 (mouse B cell lymphoma B lymphocyte) whole cell lysate
Lane 2: ab322345 IP in WEHI-231 whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab322345 in WEHI-231 whole cell lysate

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

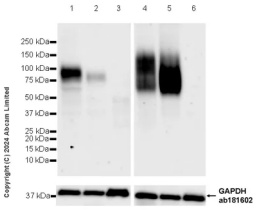
All lanes:
Immunoprecipitation - Anti-CD19 antibody [RM2072] (ab322345) at 1/30 dilution

All lanes:
WEHI-231 (mouse B cell lymphoma B lymphocyte) whole cell lysate

Secondary

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

Exposure time: 180s



Western blot - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Western blot staining using rabbit Anti-CD19 antibody

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

Negative control: Human skeletal muscle, mouse heart.

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

All lanes:
Western blot - Anti-CD19 antibody [RM2072] (ab322345) at 1/1000 dilution

Lane 1:
Human tonsil tissue lysate at 20 µg

Lane 2:
Human spleen tissue lysate at 20 µg

Lane 3:
Human skeletal muscle tissue lysate at 20 µg

Lane 4:
Mouse lymph node tissue lysate at 20 µg

Lane 5:
Mouse spleen tissue lysate at 20 µg

Lane 6:

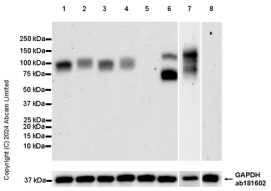
Mouse heart tissue lysate at 20 µg

Secondary

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

Observed band size: 60-120 kDa, 36 kDa

Exposure time: 103s



Western blot - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Western blot staining using rabbit Anti-CD19 antibody

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

Negative control: CTLL-2 and Jurkat (PMID:19147785).

The molecular weight observed is consistent with what has been described in the literature (PMID: 26516065; PMID: 14530327)

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

All lanes:
Western blot - Anti-CD19 antibody [RM2072] (ab322345) at 1/1000 dilution

Lane 1:
Raji (human Burkitt's lymphoma B lymphocyte) whole cell lysate at 20 µg

Lane 2:
Daudi (human Burkitt's lymphoma lymphoblast) whole cell lysate at 20 µg

Lane 3:
Ramos (human Burkitt's lymphoma B lymphocyte) whole cell lysate at 20 µg

Lane 4:
NAMALWA (human Burkitt's lymphoma B lymphocyte) whole cell lysate at 20 µg

Lane 5:
Jurkat (human T cell leukemia T lymphocyte from peripheral blood) whole cell lysate at 20 µg

Lane 6:
A20 (mouse reticulum sarcoma B lymphocyte) whole cell lysate at 20 µg

Lane 7:
WEHI-231 (mouse B cell lymphoma B lymphocyte) whole cell lysate at 20 µg

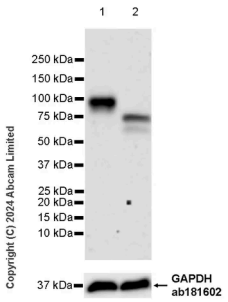
Lane 8:
CTLL-2 (mouse T lymphocyte) whole cell lysate at 20 µg

Secondary

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

Observed band size: 60-120 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Western blot staining using rabbit Anti-CD19 antibody

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

CD19 is a glycoprotein of approximately 100-120 kDa and detected as a 60-75 kDa band after treated with Protein Deglycosylation MIX II.

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

All lanes:
Western blot - Anti-CD19 antibody [RM2072] (ab322345) at 1/1000 dilution

Lane 1:
Untreated Raji (human Burkitt's lymphoma B lymphocyte) whole cell lysate at 20 µg

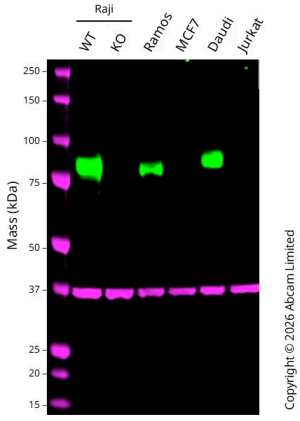
Lane 2:
Raji cell lysate treated with Protein Deglycosylation Mix II at 20 µg

Secondary

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

Observed band size: 60-120 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-CD19 antibody [RM2072] (ab322345)

CD19 Western blot staining using rabbit Anti-CD19 antibody

Western blot: Anti-CD19 antibody [RM2072] ab322345 staining at 1/1000 dilution, shown in green; Mouse anti GAPDH ab8245 loading control staining at 1/20000 dilution, shown in magenta. A band was observed at 80-90 kDa in Wild-type Raji cell lysates with no signal observed at this size in CD19 knockout Raji cell line. To generate this image, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5% Milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit 800CW and Goat anti-Mouse 680RD at 1/20,000 dilution.
All lanes:
Western blot - Anti-CD19 antibody [RM2072] (ab322345) at 1/1000 dilution

Lane 1:
Wild-type Raji at 20 µg

Lane 2:
Western blot - Human CD19 knockout Raji cell line (ab274913) at 20 µg

Lane 3:
Ramos at 20 µg

Lane 4:
MCF7 at 20 µg

Lane 5:
Daudi at 20 µg

Lane 6:
Jurkat at 20 µg

Secondary

All lanes:
Goat anti-Rabbit 800CW & Goat anti-Mouse 680RD at 1/20000 dilution

Performed under reducing conditions.

Predicted band size: 80-90 kDa

Observed band size: 80-90 kDa

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