abcam

ab327056

Anti-ILT-4/CD85d antibody [EPR29046-643]

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	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR29046-643
Purification technique	Affinity purification Protein A
Concentration	0.502 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Transfected cell line - Human
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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.

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information ILT-4/CD85d

Function	Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles (PubMed:11169396, PubMed:12853576, PubMed:16455647, PubMed:20448110, PubMed:27859042). Involved in the down-regulation of the immune response and the development of tolerance. Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (peptide-bound HLA-G-B2M) triggering differentiation of type 1 regulatory T cells and myeloid-derived suppressor cells, both of which actively maintain maternal-fetal tolerance (PubMed:16455647, PubMed:20448110, PubMed:27859042). Competes with CD8A for binding to class I MHC antigens. Inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions (PubMed:11875462, PubMed:12853576, PubMed:9548455, PubMed:9842885).

Storage

Shipped at conditions	Conditional Ambient
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

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.

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

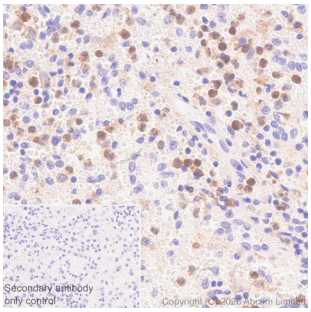
We do not recommend this combination. It is not covered by our product promise.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human spleen using rabbit Anti-ILT-4/CD85d antibody

Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling ILT-4 with ab327056 at 1/100 (5.02 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human spleen.

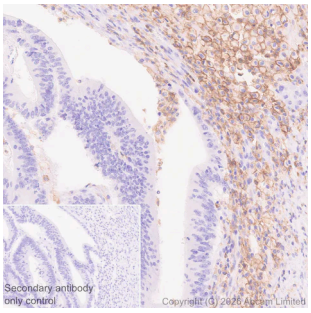
The primary antibody was incubated for 30 mins at room temperature.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human colon cancer using rabbit Anti-ILT-4/CD85d antibody

Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue labeling ILT-4 with ab327056 at 1/100 (5.02 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on immune cells of human colon cancer.

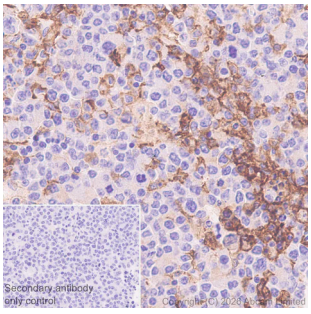
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human non-Hodgkin's lymphoma using rabbit Anti-ILT-4/CD85d antibody

Immunohistochemical analysis of paraffin-embedded Human non-Hodgkin's lymphoma tissue labeling ILT-4 with ab327056 at 1/100 (5.02 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on human non-Hodgkin's lymphoma.

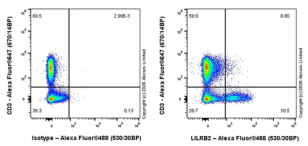
The primary antibody was incubated for 30 mins at room temperature.

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-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

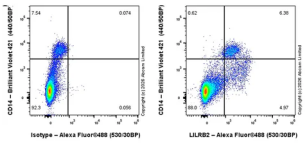
ILT-4/CD85d Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-ILT-4/CD85d antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling ILT-4 with ab327056 at 1/500 dilution (0.1ug) / 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.



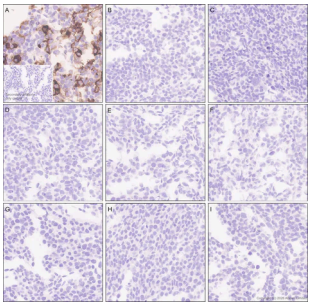
Flow Cytometry - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Flow Cytometry staining of Human PBMC (human peripheral blood mononuclear cell) using rabbit Anti-ILT-4/CD85d antibody

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling ILT-4 with ab327056 at 1/500 dilution (0.1ug) / 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 CD14 conjugated to Brilliant Violet 421.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-ILT-4/CD85d antibody

Immunohistochemical analysis of paraffin-embedded (A): HEK-293T (human embryonic kidney epithelial cell) cells transfected with a human LILRB2 expression vector containing a his tag. (B): HEK-293T cells transfected with a human LILRB1 expression vector containing a his tag. (C): HEK-293T cells transfected with a human LILRA1 expression vector containing a his tag. (D): HEK-293T cells transfected with a human LILRA3 expression vector containing a his tag. (E): HEK-293T cells transfected with a human LILRA2 expression vector containing a his tag. (F): HEK-293T cells transfected with a human LILRA6 expression vector containing a his tag. (G): HEK-293T cells transfected with a human LILRB3 expression vector containing a his tag. (H): HEK-293T cells transfected with a human LILRB5 expression vector containing a his tag. (I): HEK-293T cells transfected with empty vector containing a his tag. tissue labeling ILT-4 with ab327056 at 1/2000 (0.251 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) HEK-293T cells transfected with a human LILRB2 expression vector containing a his tag, no staining on (B) HEK-293T cells transfected with a human LILRB1 expression vector containing a his tag, (C) HEK-293T cells transfected with a human LILRA1 expression vector containing a his tag, (D) HEK-293T cells transfected with a human LILRA3 expression vector containing a his tag, (E) HEK-293T cells transfected with a human LILRA2 expression vector containing a his tag, (F) HEK-293T cells transfected with a human LILRA6 expression vector containing a his tag, (G) HEK-293T cells transfected with a human LILRB3 expression vector containing a his tag, (H) HEK-293T cells transfected with a human LILRB5 expression vector containing a his tag, and (I) HEK-293T cells transfected with empty vector containing a his tag.

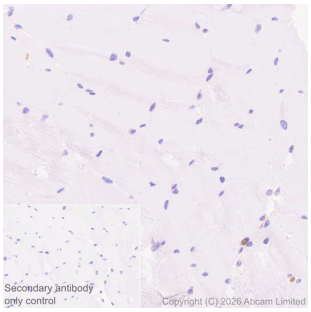
The primary antibody was incubated for 30 mins at room temperature.

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-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-ILT-4/CD85d antibody

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling ILT-4 with ab327056 at 1/100 (5.02 µg/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression tissue: positive staining on immune cells of human skeletal muscle.

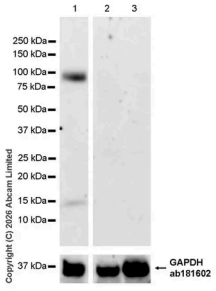
The primary antibody was incubated for 30 mins at room temperature.

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

Counterstained with Hematoxylin.

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



Western blot - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Western blot staining of U-937 (human histiocytic lymphoma monocyte) whole cell lysate using rabbit Anti-ILT-4/CD85d antibody

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

Low expression: 293T, Hela.

To minimize protein degradation, cells were lysed immediately after harvest and then applied to a gel and transfer membrane for Western blotting as soon as possible.

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

All lanes:
Western blot - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056) at 1/1000 dilution

Lane 1:
U-937 (human histiocytic lymphoma monocyte) whole cell lysate at 80 µg

Lane 2:
293T (human embryonic kidney epithelial cell) whole cell lysate at 80 µg

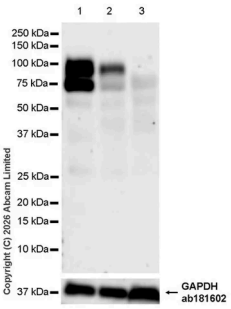
Lane 3:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate at 80 µg

Secondary

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

Observed band size: 100 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056)

ILT-4/CD85d Western blot staining using rabbit Anti-ILT-4/CD85d antibody

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

Low expression: skeletal muscle.

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

All lanes:
Western blot - Anti-ILT-4/CD85d antibody [EPR29046-643] (ab327056) at 1/1000 dilution

Lane 1:
Human spleen tissue lysate at 80 µg

Lane 2:
Human colon cancer tissue lysate at 80 µg

Lane 3:
Human skeletal muscle tissue lysate at 80 µg

Secondary

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

Observed band size: 75-100 kDa, 36 kDa

Exposure time: 70s

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