abcam

ab288574

Anti-TPN antibody [EPR25083-20] - 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	EPR25083-20
Purification technique	Affinity purification Protein A
Specificity	This product is not suitable for IHC with samples from mouse.
Concentration	1.031 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat

Dilution info	-
Notes	-

WB

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	This product is not suitable for IHC with samples from mouse.

Not recommended

Species	Mouse
Dilution info	-
Notes	This product is not suitable for IHC with samples from mouse.

Species	Rat
Dilution info	-

Notes	This product is not suitable for IHC with samples from mouse.

Target data

See full target information TAPBP

Function	Involved in the association of MHC class I with transporter associated with antigen processing (TAP) and in the assembly of MHC class I with peptide (peptide loading).

Storage

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

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.

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.

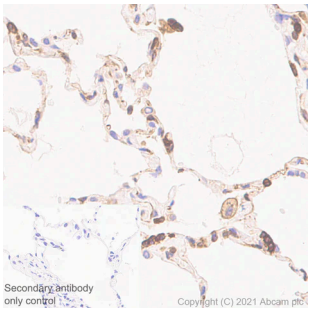
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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10 product images



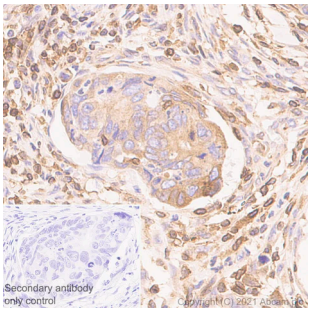
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

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

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human lung tissue labelling TPN with ab288565 at 1/500 (1.002 ug/ml) followed by ready to use LeicaDS9800 (Bond™, Polymer Refine Detection). Mainly cytoplasmic staining on the leukocytes of human lung. The section was incubated with ab288565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Ready to use LeicaDS9800 (Bond™, Polymer Refine Detection).

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



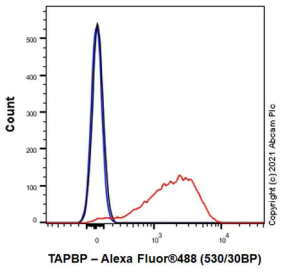
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

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

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human colon carcinom tissue labelling TPN with ab288565 at 1/500 (1.002 ug/ml) followed by ready to use LeicaDS9800 (Bond™, Polymer Refine Detection). Cytoplasmic staining on the cancer cells and stromal cells of human colon carcinoma (PMID: 26310568). The section was incubated with ab288565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: ready to use LeicaDS9800 (Bond™, Polymer Refine Detection).

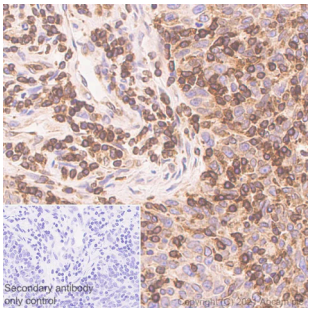
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

TPN Flow Cytometry (Intracellular) staining using rabbit Anti-TPN antibody

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Jurkat (Human T cell leukemia T lymphocyte) cells labelling TPN with ab288565 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



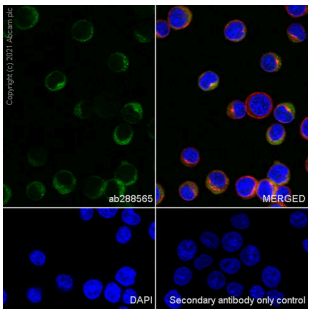
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

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

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human lung adenocarcinoma tissue labelling TPN with ab288565 at 1/500 (1.002 ug/ml) followed by a ready to use LeicaDS9800 (Bond™, Polymer Refine Detection) was used. Cytoplasmic staining on the cancer cells and stromal cells of human lung adenocarcinoma. The section was incubated with ab288565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: ready to use LeicaDS9800 (Bond™, Polymer Refine Detection).

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

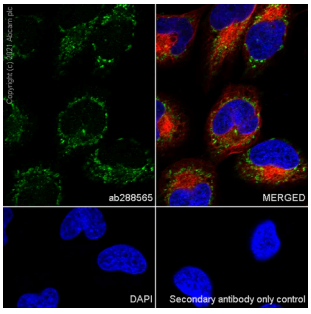


Immunocytochemistry/ Immunofluorescence - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

TPN Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TPN antibody

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Jurkat cells labelling TPN with ab288565 at 1/500 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 Jurkat cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). 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 dilution.

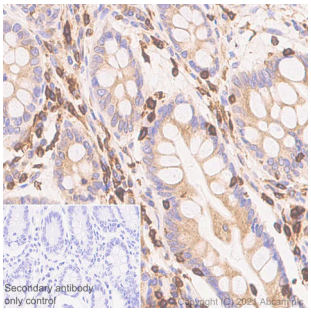


Immunocytochemistry/ Immunofluorescence - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

TPN Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TPN antibody

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HeLa cells labelling TPN with ab288565 at 1/500 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 HeLa cell line is observed. ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). 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 dilution.



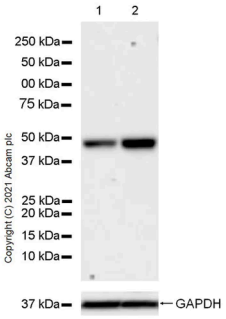
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

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

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human colon tissue labelling TPN with ab288565 at 1/500 (1.002 ug/ml) followed by ready to use LeicaDS9800 (Bond™, Polymer Refine Detection). Cytoplasmic staining on the stromal cells of human colon (PMID: 26310568). The section was incubated with ab288565 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Ready to use LeicaDS9800 (Bond™, Polymer Refine Detection).

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



Western blot - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

TPN Western blot staining using rabbit Anti-TPN antibody

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

Upregulating the expression of TPN protein by IFN gamma treatment (PMID: 11169257)

All lanes:
Western blot - Anti-TPN antibody [EPR25083-20] (ab288565) at 1/1000 dilution

Lane 1:
Untreated HeLa (human epithelial cell line from cervix adenocarcinoma), whole cell lysate at 20 µg

Lane 2:
HeLa treated with 100 ng/ml IFN gamma for 16 hours, whole cell lysate at 20 µg

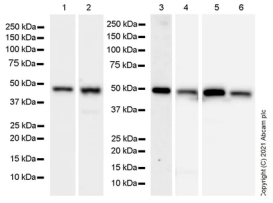
Secondary

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

Predicted band size: 48 kDa

Observed band size: 48 kDa

Exposure time: 48s



Western blot - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

TPN Western blot staining using rabbit Anti-TPN antibody

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure times:

Lanes 1 & 2: 48 seconds

Lane 3: 3 minutes

Lane 4: 26 seconds

Laned 5 & 6: 15 seconds

All lanes:
Western blot - Anti-TPN antibody [EPR25083-20] (ab288565) at 1/1000 dilution

Lane 1:
Mouse spleen tissue lysate at 20 µg

Lane 2:
Human liver tissue lysate at 20 µg

Lane 3:
RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate at 20 µg

Lane 4:
HeLa (human epithelial cell line from cervix adenocarcinoma), whole cell lysate at 20 µg

Lane 5:
A431 (human epidermoid carcinoma epithelial cell), whole cell lysate at 20 µg

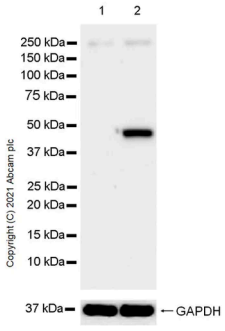
Lane 6:
Jurkat (human T cell leukemia T lymphocyte), whole cell lysate at 20 µg

Secondary

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

Predicted band size: 48 kDa

Observed band size: 48 kDa



Western blot - Anti-TPN antibody [EPR25083-20] - BSA and Azide free (ab288574)

TPN Western blot staining using rabbit Anti-TPN antibody

This data was developed using ab288565, the same antibody clone in a different buffer formulation.
Blocking and diluting buffer and concentration: 5% NFDM/TBST

Upregulating the expression of TPN protein by IFN gamma treatment (PMID: 11169257)

All lanes:
Western blot - Anti-TPN antibody [EPR25083-20] (ab288565) at 1/1000 dilution

Lane 1:
Untreated B16-F10 (Mouse skin melanoma), whole cell lysate at 10 µg

Lane 2:
B16-F10 treated with 100 ng/ml IFN gamma for 16 hours, whole cell lysate at 10 µg

Secondary

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

Predicted band size: 48 kDa

Observed band size: 48 kDa

Exposure time: 48s

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