abcam

ab288565

Anti-TPN antibody [EPR25083-20]

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	EPR25083-20
Purification technique	Affinity purification Protein A
Specificity	This product is not suitable for IHC with samples from mouse.
Concentration	0.501 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
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/500
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	1/500
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	1/500
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	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

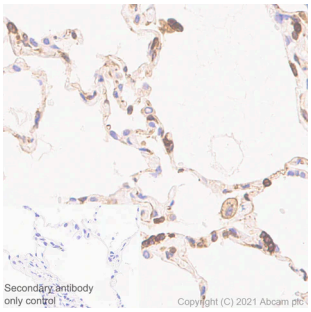
We do not recommend this combination. It is not covered by our product promise.

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.

10 product images

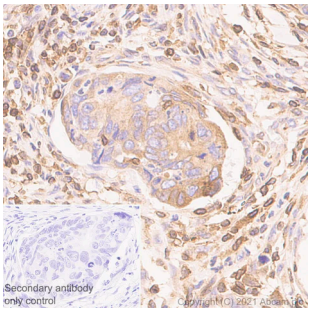


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPN antibody [EPR25083-20] (ab288565)

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

Immunohistochemical analysis of paraffin-embedded Human lung tissue labelling TPN with ab288565 at 1/500 (1.002 ug/ml) followed by ready to use Leica DS9800 (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 Leica DS9800 (BOND™, Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

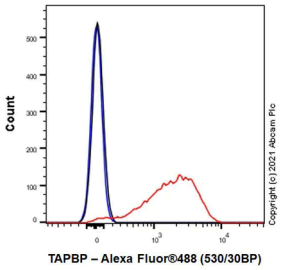


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TPN Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TPN antibody

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 Leica DS9800 (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 Leica DS9800 (BOND™, Polymer Refine Detection).

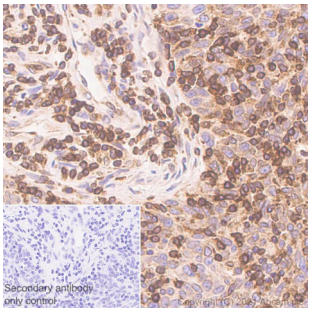
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-TPN antibody [EPR25083-20] (ab288565)

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

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.

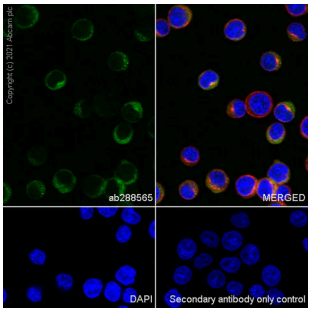


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TPN antibody [EPR25083-20] (ab288565)

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

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 Leica DS9800 (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 Leica DS9800 (BOND™, Polymer Refine Detection).

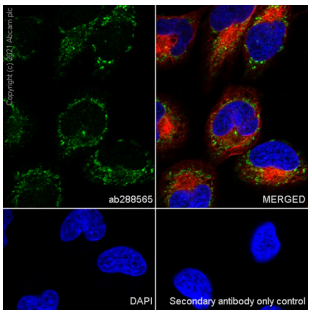
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins



Immunocytochemistry/ Immunofluorescence - Anti-TPN antibody [EPR25083-20] (ab288565)

TPN Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TPN antibody

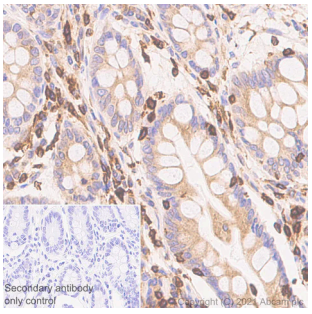
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Jurkat cells labelling TPN with ab288565 at 1/500 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining 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] (ab288565)

TPN Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TPN antibody

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.

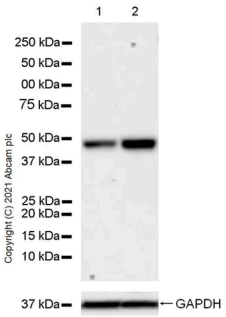


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Secondary antibody only control: Ready to use Leica DS9800 (BOND™, Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Western blot - Anti-TPN antibody [EPR25083-20] (ab288565)

TPN Western blot staining using rabbit Anti-TPN antibody

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

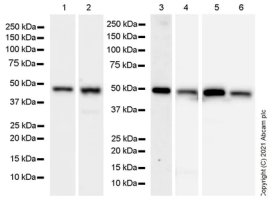
Secondary

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] (ab288565)

TPN Western blot staining using rabbit Anti-TPN antibody

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:

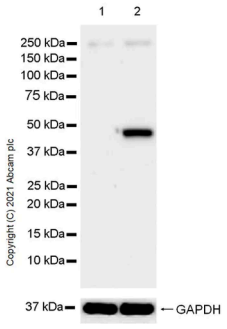
Jurkat (human T cell leukemia T lymphocyte), whole cell lysate at 20 µg

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] (ab288565)

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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'.