

## Product datasheet

### Anti-TPN antibody [7F6] ab252869

Recombinant

[1 References](#) [3 Images](#)

#### Overview

Product name	Anti-TPN antibody [7F6]
Description	Rat monoclonal [7F6] to TPN
Host species	Rat
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HepG2, HUVEC, Jurkat, Daudi, Raji and HeLa whole lysates.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a>.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Ion Exchange Chromatography
Clonality	Monoclonal
Clone number	7F6
Isotype	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab252869 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 48 kDa.

### Application notes

Is unsuitable for ICC.

## Target

### 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).

### Tissue specificity

Neutrophils, mostly in fully differentiated cells.

### Sequence similarities

Contains 1 Ig-like C1-type (immunoglobulin-like) domain.

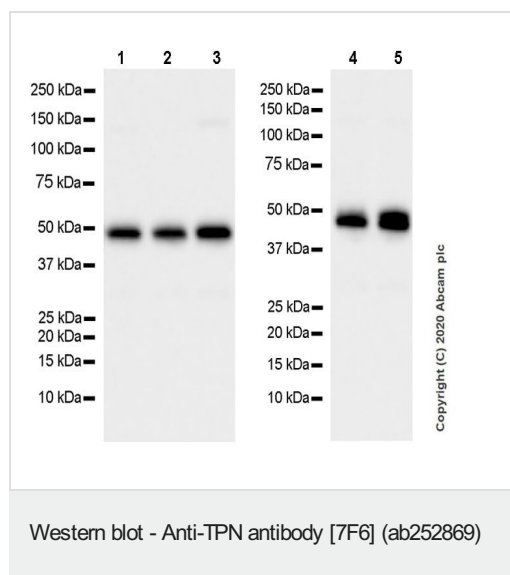
### Domain

The N-terminus is required for efficient association with MHC class I molecule and for a stable interaction between MHC I and calreticulin. Binding to TAP is mediated by the C-terminus region.

### Cellular localization

Endoplasmic reticulum membrane.

## Images



**All lanes :** Anti-TPN antibody [7F6] (ab252869) at 1/1000 dilution

**Lane 1 :** HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

**Lane 2 :** HUVEC (human umbilical vein endothelial cell), whole cell lysate

**Lane 3 :** Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

**Lane 4 :** Daudi (human Burkitts lymphoma lymphoblast), whole cell lysate

**Lane 5 :** Raji (human Burkitts lymphoma B lymphocyte), whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rat IgG H&L (HRP) (**ab205720**) at 1/5000 dilution

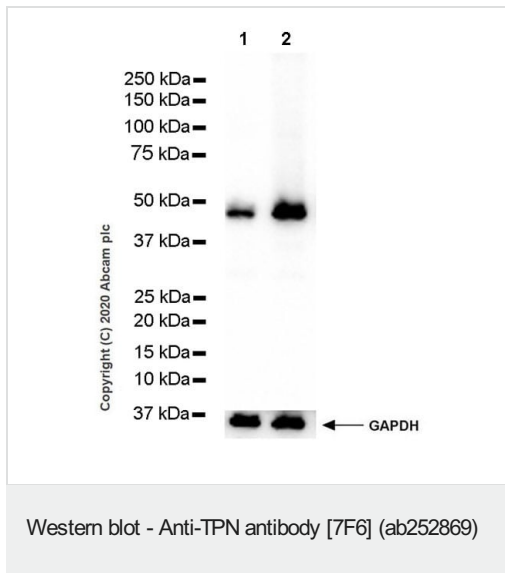
**Predicted band size:** 48 kDa

**Observed band size:** 47 kDa

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

The double bands observed in lane 5 is consistent with what has been described in the literatures (PMID: 29107940, 17620360).

Exposure time: lane 1-3: 6 seconds; lane 4-5: 3 seconds.



**All lanes :** Anti-TPN antibody [7F6] (ab252869) at 1/1000 dilution

**Lane 1 :** HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

**Lane 2 :** HeLa treated with 100 U/ml IFN gamma for 24 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rat IgG H&L (HRP) ([ab205720](#)) at 1/5000 dilution





**Predicted band size:** 48 kDa

**Observed band size:** 47 kDa

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

Exposure time: 3 seconds.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-TPN antibody [7F6] (ab252869)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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