

### Anti-TXNIP antibody [EPR14774] ab188865






[4 Abreviews](#)
[75 References](#)
[8 图像](#)

#### 概述

产品名称	Anti-TXNIP抗体[EPR14774]
描述	兔单克隆抗体[EPR14774] to TXNIP
宿主	Rabbit
特异性	<p>Expression levels of the target protein vary with sample type and some optimisation may be required. For western blotting, more concentrated lysates may be required when using tissues samples.</p> <p>Stimulation may be required to allow detection of the target protein due to low levels of endogenous expression in some samples. Please see images below for recommended treatment conditions and positive controls.</p>
经测试应用	<b>适用于:</b> WB, IHC-P
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human kidney and Mouse liver tissue. WB: HeLa, 293T, HAP1, MCF7, K562, THP-1, MDA-MB-231, BxPC-3, HUVEC, BxPC-3, PC-12 and NIH/3T3; Human liver, skeletal muscle and kidney tissue lysates
常规说明	<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> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.2

	Preservative: 0.01% Sodium azide
	Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR14774
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab188865于以下的经测试应用

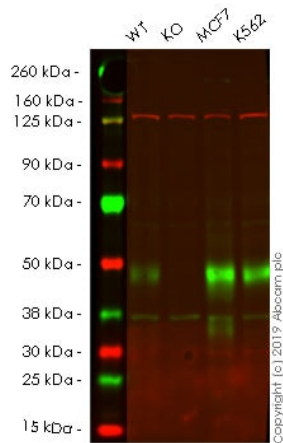
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (3)	1/1000 - 1/2000. Detects a band of approximately 50 kDa (predicted molecular weight: 44 kDa). Weak detection observed in western blot when using tissue lysates compared to cell lysates. Not recommended for mouse and rat tissue samples in western blot.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

靶标

功能	May act as an oxidative stress mediator by inhibiting thioredoxin activity or by limiting its bioavailability. Interacts with COPS5 and restores COPS5-induced suppression of CDKN1B stability, blocking the COPS5-mediated translocation of CDKN1B from the nucleus to the cytoplasm. Functions as a transcriptional repressor, possibly by acting as a bridge molecule between transcription factors and corepressor complexes, and over-expression will induce G0/G1 cell cycle arrest. Required for the maturation of natural killer cells.
序列相似性	Belongs to the arrestin family.
翻译后修饰	Ubiquitinated; undergoes polyubiquitination catalyzed by ITCH resulting in proteasomal degradation.
细胞定位	Cytoplasm.

图片



Western blot - Anti-TXNIP antibody [EPR14774]  
(ab188865)

**All lanes :** Anti-TXNIP antibody [EPR14774] (ab188865) at 1/1000 dilution

**Lane 1 :** Wild-type HAP1 whole cell lysate

**Lane 2 :** TXNIP knockout HAP1 whole cell lysate

**Lane 3 :** MCF7 (human breast adenocarcinoma cell line) whole cell lysate

**Lane 4 :** K-562 (human chronic myelogenous leukemia lymphoblasts cell line) whole cell lysate

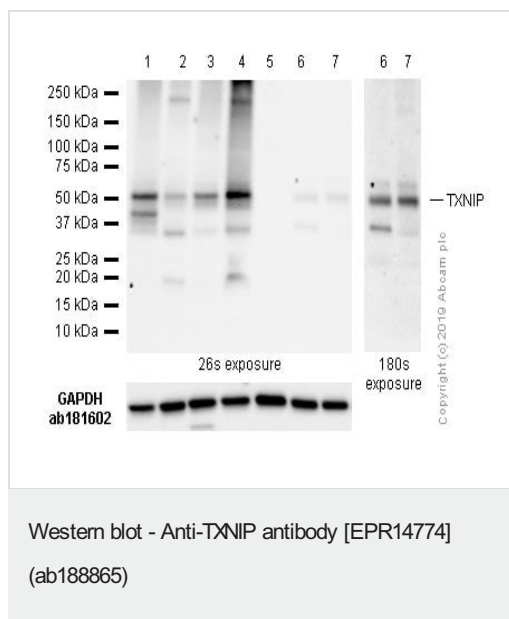
Lysates/proteins at 20 µg per lane.

**Predicted band size:** 44 kDa

**Observed band size:** 44 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab188865 observed at 44 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab188865 was shown to recognize TXNIP in wild-type HAP1 cells as signal was lost at the expected MW in TXNIP knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and TXNIP knockout samples were subjected to SDS-PAGE. ab188865 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



**All lanes** : Anti-TXNIP antibody [EPR14774] (ab188865) at 1/1000 dilution

**Lane 1** : THP-1 (human acute monocytic leukemia) whole cell lysates

**Lane 2** : MCF7 (human breast carcinoma) whole cell lysates

**Lane 3** : MDA-MB-231 (human mammary gland epithelial adenocarcinoma) whole cell lysates

**Lane 4** : BxPC-3 (human Pancreas adenocarcinoma) whole cell lysates

**Lane 5** : HUVEC (human umbilical vein/vascular endothelium) whole cell lysates (negative/low expression)

**Lane 6** : Human liver lysate

**Lane 7** : Human kidney lysate

Lysates/proteins at 20 µg per lane.

## Secondary

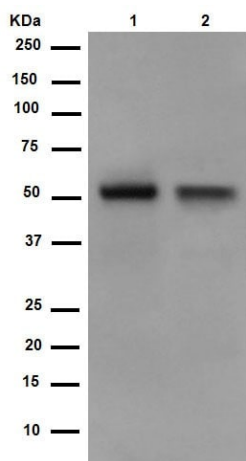
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 44 kDa

**Observed band size:** 50 kDa

Blocking buffer and concentration 5% NFDM/TBST

Diluting buffer and concentration 5% NFDM/TBST



Western blot - Anti-TXNIP antibody [EPR14774]  
(ab188865)

**All lanes** : Anti-TXNIP antibody [EPR14774] (ab188865) at 1/5000 dilution

**Lane 1** : Human skeletal muscle lysate

**Lane 2** : BxPC-3 cell lysate

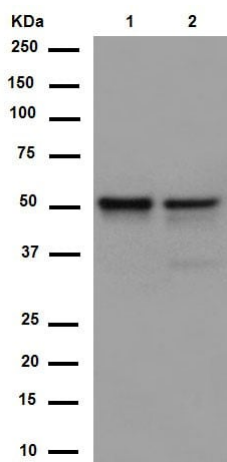
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 44 kDa

**Observed band size:** 50 kDa



Western blot - Anti-TXNIP antibody [EPR14774]  
(ab188865)

**All lanes** : Anti-TXNIP antibody [EPR14774] (ab188865) at 1/1000 dilution

**Lane 1** : PC-12 cell lysate

**Lane 2** : NIH/3T3 cell lysate

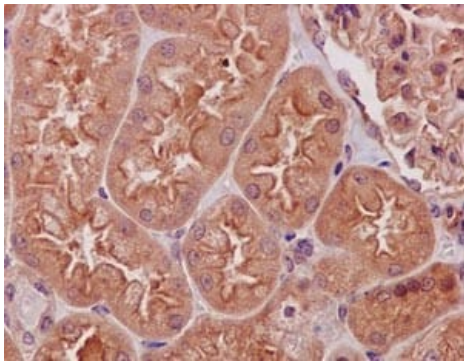
Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 44 kDa

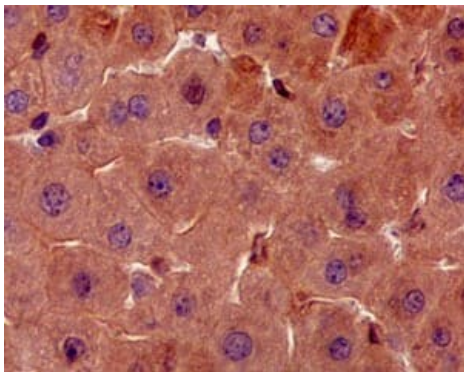
**Observed band size:** 50 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNIP antibody [EPR14774] (ab188865)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling TXNIP with ab188865 at 1/250 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

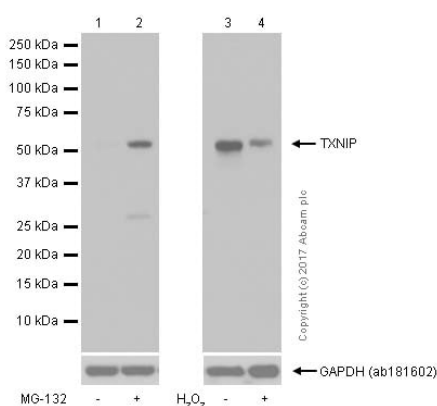
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNIP antibody [EPR14774] (ab188865)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling TXNIP with ab188865 at 1/250 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

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



Western blot - Anti-TXNIP antibody [EPR14774] (ab188865)

**All lanes** : Anti-TXNIP antibody [EPR14774] (ab188865) at 1/1000 dilution

**Lane 1** : 293T (Human embryonic kidney epithelial cell) whole cell lysates

**Lane 2** : 293T (Human embryonic kidney epithelial cell) treated with 25uM MG-132 for 4 hours whole cell lysates.

**Lane 3** : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

**Lane 4** : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 10mM H<sub>2</sub>O<sub>2</sub> for 1 hour whole cell lysate

Lysates/proteins at 15 µg per lane.

## Secondary

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

**Predicted band size:** 44 kDa

**Observed band size:** 50 kDa

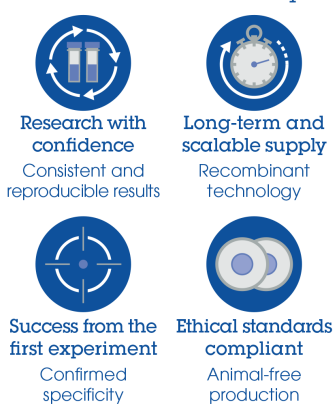
**Exposure time:** 30 seconds

Blocking and diluting buffer: 5% NFDM/TBST

MG-132 induces the expression of TXNIP (PMID: 20068034).

H2O2 reduces the expression of TXNIP (PMID: 24376827).

Why choose a recombinant antibody?



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

Anti-TXNIP antibody [EPR14774] (ab188865)

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

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