abcam

Product datasheet

Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free ab232330

重组

1 Abreviews 2 References 8 图像

概述

产品名称	Anti-TXNIP抗体[EPR14774] -小鼠IgG2b (Chimeric) - BSA and Azide free
描述	小鼠单克隆抗体[EPR14774] to TXNIP - Chimeric – BSA and Azide free
宿主	Mouse
经测试应用	**适用于:** Flow Cyt (Intra), WB, ICC/IF, IHC-P
种属反应性	**与反应:** 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, 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	ab232330 is the carrier-free version of **ab210826**. This mouse monoclonal chimeric antibody has been engineered from a RabMAb parent antibody (**ab188865**). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed Fc-reactive secondary antibodies are recommended. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. 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. 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.

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 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR14774
同种型	IgG
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab232330于以下的经测试应用**

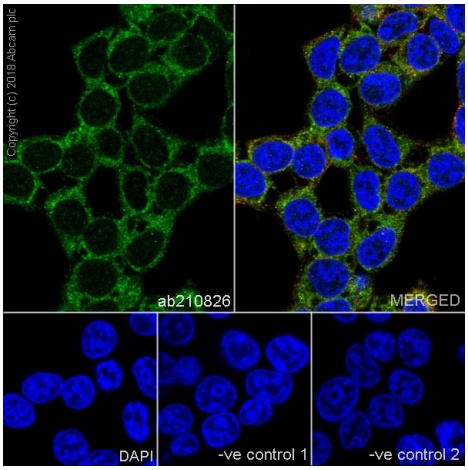
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 55 kDa (predicted molecular weight: 44 kDa).
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 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.

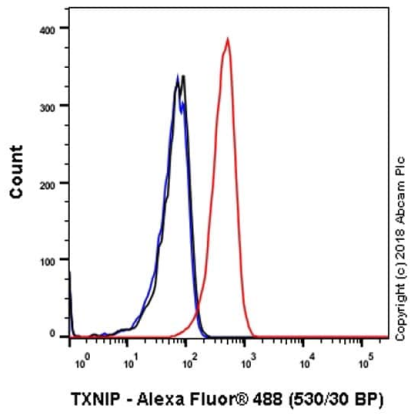
图片



Immunocytochemistry/ Immunofluorescence - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

Ab210826 staining TXNIP in 293T (human embryonic kidney epithelial cell line) cells by Immunocytochemistry/Immunofluorescence (ICC/IF). The cells were fixed with 100% Methanol. Samples were incubated with primary antibody at 10µg/ml (1:100 dilution). An Alexa Fluor® 488 Goat Anti-Mouse was used as the secondary antibody at 2µg/ml (**ab150113**). Ab179504, Anti-beta IV Tubulin was used as a counterstain at 2µg/ml and **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) was used as secondary antibody counterstain at 4µg/ml. For negative control 1, primary antibody was used at a 10µg/ml and **ab150080** was used as secondary antibody at 4 µg/ml. For negative control 2, **ab179504** was used as a primary antibody at 2µg/ml and **ab150113** was used as a secondary antibody at 2 µg/ml. DAPI was used as a nuclear counterstain. Confocal image showing cytoplasmic staining in 293T cells.

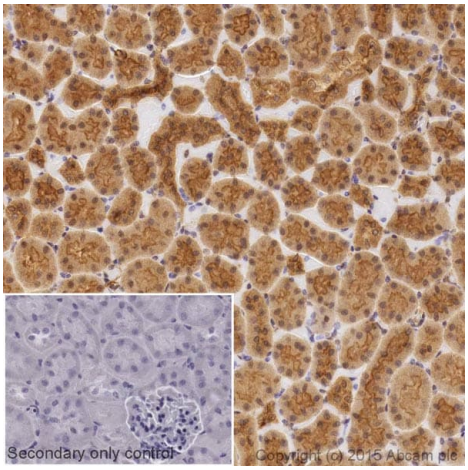
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210826**).



Flow Cytometry (Intracellular) - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

Ab210826 staining TXNIP in HeLa (Human cervix adenocarcinoma epithelial cell line) by intracellular flow cytometry. Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. The sample was incubated with primary antibody at 1/100 dilution (1µg/ml) (red). An Alexa Fluor® 488 Goat anti mouse IgG (**ab150113**) was used at 1/2000 dilution. Rabbit monoclonal IgG (**ab172730**) was used as isotype control (black). Cell without incubation with primary antibody and secondary antibody (blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210826**).

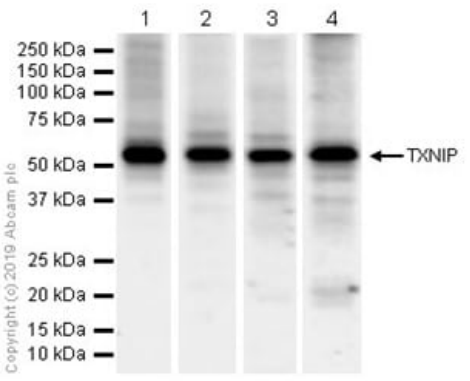


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

IHC image of **ab210826** staining in a section of formalin fixed, paraffin embedded mouse normal kidney, using MOM detection kit, **ab127055**. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins. The section was incubated with **ab210826**, 2µg/ml, for 15 mins at room temperature. DAB was used as the chromogen (**ab103723**), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210826**).



Western blot - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

All lanes : Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates
Lane 4 : PC-12 (Rat adrenal gland pheochromocyteoma) whole cell lysates

Lysates/proteins at 15 µg per lane.

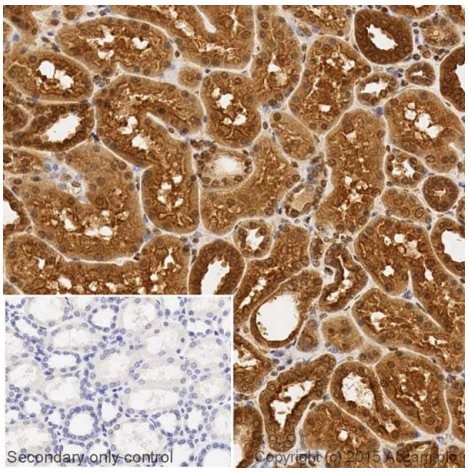
Secondary
All lanes : Rabbit polyclonal secondary antibody to mouse IgG – H&L (HRP) at 1/2000 dilution

Predicted band size: 44 kDa

Observed band size: 55 kDa

Exposure time: 30 seconds

Blocking and dilution buffer: 5% NFDM/TBST.



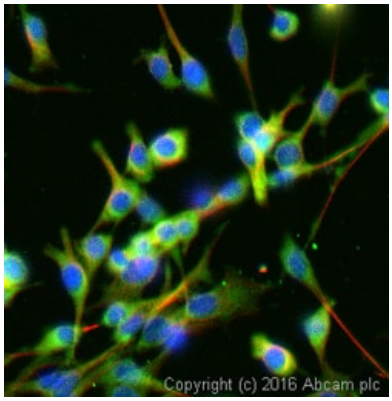
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

IHC image of TxNIP staining in a section of formalin fixed, paraffin embedded human normal kidney tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with **ab210826**, 2µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

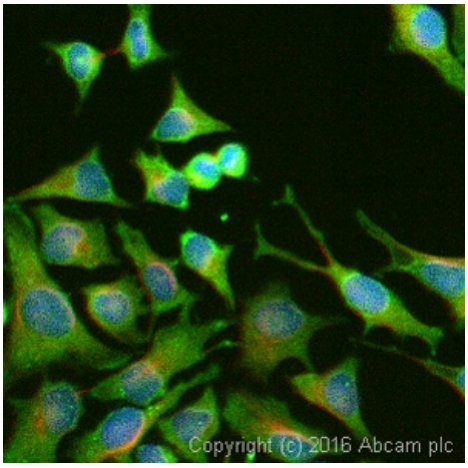
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210826**).



Immunocytochemistry/ Immunofluorescence - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

ab210826 stained in NIH3T3 cells. The cells were fixed with 100% methanol (5min) at room temperature and incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% triton for 1h at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody **ab210826** at 5µg/ml overnight at +4°C. The secondary antibody was **ab150177** used at 1 ug/ml for 1hour at room temperature (colored green). **ab206369** (Rabbit monoclonal [EPR16774] to beta Tubulin Alexa Fluor® 594) was used as a counterstaining at a 1/200 dilution for 1hour at room temperature (pseudo-colored red). DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43µM for 1hour at room temperature.

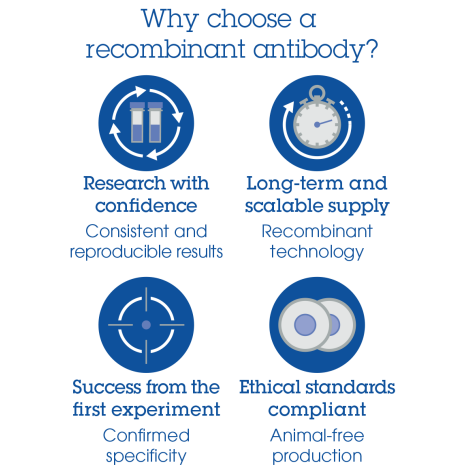
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210826**).



Immunocytochemistry/ Immunofluorescence - Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

ab210826 stained in HeLa cells. The cells were fixed with 100% methanol (5min) at room temperature and incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% triton for 1h at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody **ab210826** at 5µg/ml overnight at +4°C. The secondary antibody was **ab150177** used at 1 ug/ml for 1hour at room temperature (colored green). **ab206369** (Rabbit monoclonal [EPR16774] to beta Tubulin Alexa Fluor® 594) was used as a counterstaining at a 1/200 dilution for 1hour at room temperature (pseudo-colored red). DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43µM for 1hour at room temperature.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab210826**).



Anti-TXNIP antibody [EPR14774] - Mouse IgG2b (Chimeric) - BSA and Azide free (ab232330)

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors