abcam

Product datasheet

Anti-Tristetraprolin antibody ab33058

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概述

产品名称	Anti-Tristetraprolin抗体
描述	**兔多克隆抗体**to Tristetraprolin
特异性	Does not react with Mouse, based on IHC-P Abreview.
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Human **预测可用于:** Rat, Sheep, Rabbit, Guinea pig, Cow, Cat, Dog **不与反应:** Mouse
免疫原	Synthetic peptide corresponding to Human Tristetraprolin aa 84-133. Sequence: PLAPRLGPELSPSPTSPTATSTTPSRYKTELCRTFSESGRCRYGAKCQFA Database link: P26651 (Peptide available as ab111664) Run BLAST with Run BLAST with
阳性对照	HepG2 cell lysate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None Constituents: 2% Sucrose, PBS
纯度	IgG fraction
纯化说明	ab33058 is purified by peptide affinity chromatography method.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab33058** in the following tested applications.

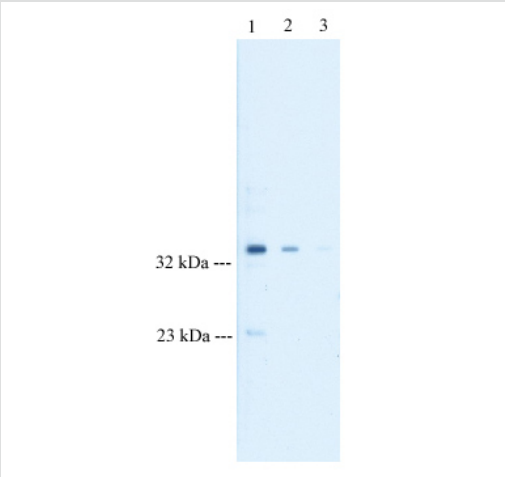
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF		Use a concentration of 1 µg/ml.
WB	★★★☆☆	Use a concentration of 1 µg/ml. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).Can be blocked with Human Tristetraprolin peptide (ab111664). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.
IHC-P		Use a concentration of 4 µg/ml.

靶标

功能	mRNA-binding protein involved in post-transcriptional regulation of AU-rich element (ARE)-containing mRNAs. Acts by specifically binding ARE-containing mRNAs and promoting their degradation. Recruits deadenylase CNOT7 (and probably the CCR4-NOT complex) via association with CNOT1. Plays a key role in the post-transcriptional regulation of tumor necrosis factor (TNF). Plays a key role in the post-transcriptional regulation of tumor necrosis factor (TNF).
序列相似性	Contains 2 C3H1-type zinc fingers.
翻译后修饰	Phosphorylation by MAPKAPK2 increases its stability and binding to 14-3-3 proteins, leading to reduce its ARE affinity leading to inhibition of degradation of ARE-containing transcripts. Phosphorylated upon mitogen stimulation.
细胞定位	Nucleus. Cytoplasm. Localizes to stress granules upon energy starvation. phosphorylation by MAPKAPK2 promotes exclusion from stress granules.

图片



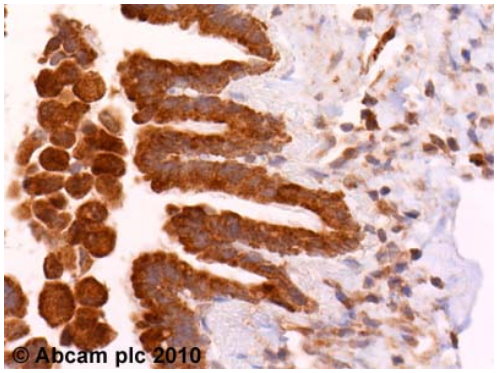
Western blot - Tristetraprolin antibody (ab33058)

Lane 1 : Anti-Tristetraprolin antibody (ab33058) at 2 µg/ml
Lane 2 : Anti-Tristetraprolin antibody (ab33058) at 1 µg/ml
Lane 3 : Anti-Tristetraprolin antibody (ab33058) at 0.5 µg/ml

Lane 1 : Cell lysate prepared from human HepG2 cells
Lane 2 : Cell lysate prepared from human HepG2 cells
Lane 3 : Cell lysate prepared from human HepG2 cells

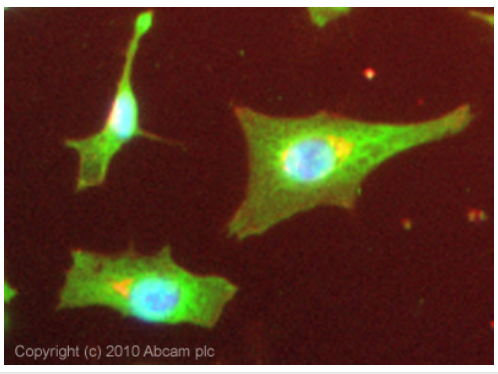
Lysates/proteins at 25 µg per lane.

Predicted band size : 36 kDa
Observed band size : 36 kDa
Additional bands at : 23 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Tristetraprolin antibody (ab33058)

ab33058 (4µg/ml) staining Tristetraprolin in human lung using an automated system (DAKO Autostainer Plus). Using this protocol there is staining of the cytoplasmic and nuclei of macrophages and nuclei staining in some pneumocytes. There was also cytoplasmic and nuclei staining of epithelium cells of the bronchioles.
Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffers EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H_2O_2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Immunocytochemistry/ Immunofluorescence - Tristetraprolin antibody (ab33058)

ICC/IF image of ab33058 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab33058, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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