Product name: Anti-Tristetraprolin/TTP antibody

Description: Rabbit polyclonal to Tristetraprolin/TTP

Host species: Rabbit

Tested applications: Suitable for: WB

Species reactivity: Reacts with: Human

Immunogen: Synthetic peptide within Human Tristetraprolin/TTP aa 50-150 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.

Database link: P26651

(Peptide available as ab106207)

Positive control: This antibody gave a positive signal in the following whole cell lysates: HeLa; HepG2; Jurkat; Ramos; A431; SK N SH; PC3.

General notes: This product was previously labelled as Tristetraprolin

Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer: Preservative: 0.02% Sodium Azide

Constituents: 1% BSA, PBS, pH 7.4

Purity: Immunogen affinity purified

Clonality: Polyclonal

Isotype: IgG

Applications:

Our Abpromise guarantee covers the use of ab83579 in the following tested applications.

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

Contains 2 C3H1-type zinc fingers.

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.

Nucleus. Cytoplasm. Localizes to stress granules upon energy starvation. phosphorylation by MAPKAPK2 promotes exclusion from stress granules.

Western blot - Anti-Tristetraprolin/TTP antibody (ab83579)

All lanes : Anti-Tristetraprolin/TTP antibody (ab83579) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
Lane 3 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 4 : Ramos (Human Burkitt's lymphoma cell line) Whole Cell Lysate
Lane 5 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 6 : SK N SH (Human neuroblastoma) Whole Cell Lysate
Lane 7 : PC3 (Human prostate carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 34 kDa  
**Observed band size:** 44 kDa

*why is the actual band size different from the predicted?*

**Additional bands at:** 150 kDa, 25 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 10 minutes

Tristetraprolin contains a number of potential phosphorylation sites (SwissProt data) which may explain it running at a higher molecular weight than predicted. The expression profile observed is also consistent with what has been described in the literature (PMID:16508015).

Anti-Tristetraprolin/TTP antibody (ab83579) at 1/1000 dilution + HeLa whole cell lysate at 20 µg

**Secondary**

HRP-conjugated goat anti-rabbit IgG at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 34 kDa  
**Observed band size:** 44 kDa

*why is the actual band size different from the predicted?*

**Exposure time:** 1 minute

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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