abcam

Product datasheet

Anti-TIGAR antibody ab37910

3 Abreviews 27 References 2 Images

Overview

Product name	Anti-TIGAR antibody
Description	Rabbit polyclonal to TIGAR
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human TIGAR aa 100-200 conjugated to keyhole limpet haemocyanin. (Peptide available as **ab37909**)
Positive control	Recombinant Human TIGAR protein (**ab115509**) can be used as a positive control in WB. This antibody gave a positive signal in the following whole cell lysates: HeLa (Human epithelial carcinoma cell line) Jurkat (Human T cell lymphoblast-like cell line) A431 (Human epithelial carcinoma cell line) HEK 293 (Human embryonic kidney cell line) HepG2 (Human hepatocellular liver carcinoma cell line) MCF-7 (Human breast adenocarcinoma cell line)
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab37910 in the following tested applications.

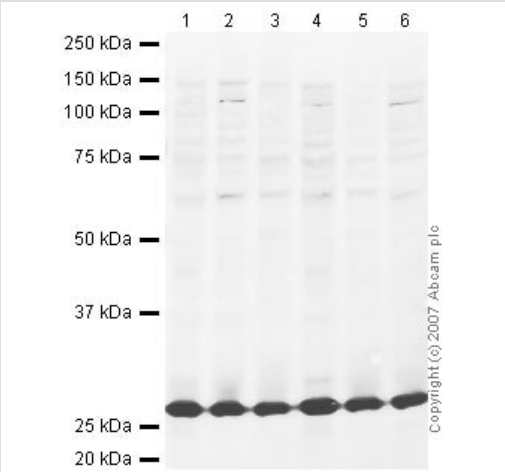
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★☆ (1)	Use at an assay dependent concentration.
ICC/IF	★★★★☆ (1)	Use a concentration of 1 µg/ml.
WB	★★★★★ (1)	1/250. Detects a band of approximately 30 kDa (predicted molecular weight: 30 kDa).

Target

Function	Probable fructose-biphosphatase. Lowers cellular levels of fructose 2,6-bisphosphate. Protects cells against reactive oxygen species and against apoptosis induced by p53/TP53.
Sequence similarities	Belongs to the phosphoglycerate mutase family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.

Images



Western blot - Anti-TIGAR antibody (ab37910)

All lanes : Anti-TIGAR antibody (ab37910) at 1/250 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : Jurkat whole cell lysate (**ab7899**)

Lane 3 : A-431 whole cell lysate (**ab7909**)

Lane 4 : HEK-293 whole cell lysate (**ab7902**)

Lane 5 : Hep G2 whole cell lysate (**ab7900**)

Lane 6 : MCF-7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

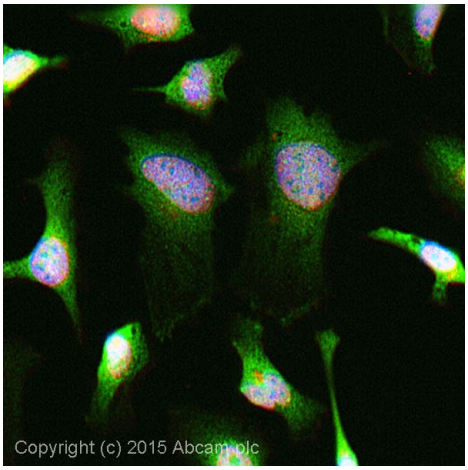
Secondary

All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at

1/10000 dilution

Performed under reducing conditions.

Predicted band size: 30 kDa
Observed band size: 30 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TIGAR antibody (ab37910)

ICC/IF image of ab37910 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) then permeabilised using 0.1% PBS-Triton and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to further permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab37910 at 1µg/ml overnight at +4°C. The secondary antibody (pseudo-colored green) was Alexa Fluor® 488 goat anti- rabbit (**ab150081**) IgG (H+L) preadsorbed, used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1h at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.

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.com/abpromise** or contact our technical team.

Terms and conditions

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