

Product datasheet

Anti-TNPO3 antibody [3152C2α] ab54353

★★★★★ [4 Abreviews](#) [20 References](#) [4 Images](#)

Overview

Product name	Anti-TNPO3 antibody [3152C2α]
Description	Mouse monoclonal [3152C2α] to TNPO3
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment (Human) from near the N terminus.
Positive control	HeLa whole cell lysate (ab150035); NIH3T3 whole cell lysate
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 1% BSA, PBS</p>
Purity	Protein G purified
Purification notes	This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.
Clonality	Monoclonal
Clone number	3152C2α
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab54353 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
Flow Cyt		Use 1 µg for 10 ⁶ cells. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (3)	1/50 - 1/100. Detects a band of approximately 90 kDa (predicted molecular weight: 110 kDa).
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

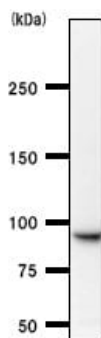
Function

Seems to function in nuclear protein import as nuclear transport receptor. In vitro, mediates the nuclear import of splicing factor SR proteins SFRS1 and SFRS2, by recognizing phosphorylated RS domains.

Cellular localization

Cytoplasm. Nucleus.

Images



Western blot - Anti-TNPO3 antibody [3152C2a]
(ab54353)

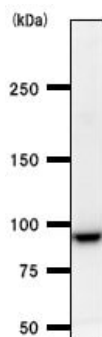
Anti-TNPO3 antibody [3152C2a] (ab54353) at 1/100 dilution +
HeLa whole cell lysate at 25 µg

Secondary

anti Mouse IgG at 1/2500 dilution

Predicted band size: 110 kDa

Observed band size: ~90 kDa



Western blot - Anti-TNPO3 antibody [3152C2a]
(ab54353)

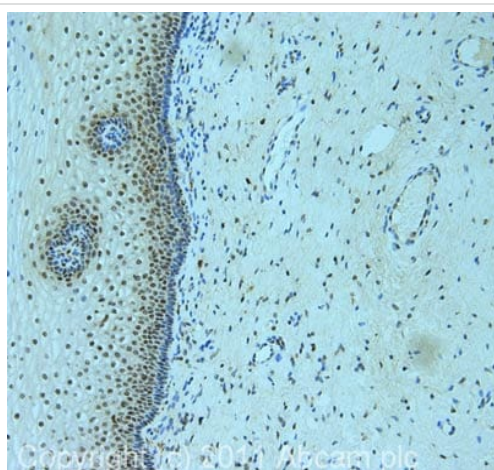
Anti-TNPO3 antibody [3152C2a] (ab54353) at 1/50 dilution +
NIH3T3 whole cell lysate at 25 µg

Secondary

anti Mouse IgG at 1/2500 dilution

Predicted band size: 110 kDa

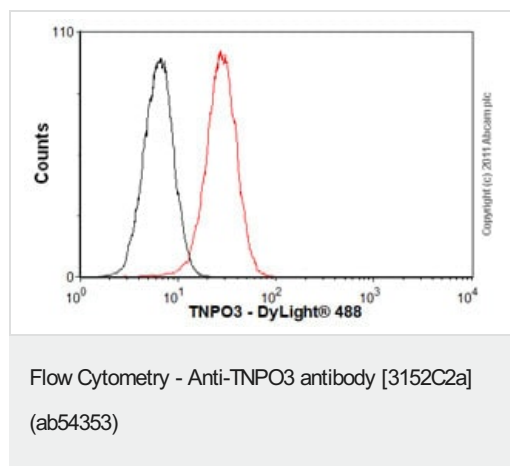
Observed band size: ~90 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-TNPO3 antibody
[3152C2a] (ab54353)

IHC image of ab54353 staining in human normal cervix formalin fixed paraffin embedded 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 ab54353, 5µg/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.



Overlay histogram showing HeLa cells stained with ab54353 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab54353, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 2 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 80% methanol/permeabilized in 0.1% PBS-Tween used under the same conditions.

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

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