

Product datasheet

Anti-TGIF antibody [EP637Y] ab52955

Recombinant RabMAb

[2 References](#) [4 Images](#)

Overview

Product name	Anti-TGIF antibody [EP637Y]
Description	Rabbit monoclonal [EP637Y] to TGIF
Host species	Rabbit
Specificity	ab52955 detects both phosphorylated and unphosphorylated TGIF.
Tested applications	Suitable for: WB, IP Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human TGIF aa 350-450 (C terminal). The exact sequence is proprietary.
Positive control	WB: HeLa and K562 cell lysate. IP: HeLa whole cell lysate (ab150035)
General notes	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and

species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP637Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab52955** 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
WB		1/5000. Detects a band of approximately 30 kDa (predicted molecular weight: 45 kDa). For unpurified use at 1/20000
IP		1/100. For unpurified use at 1/30
Application notes		Is unsuitable for IHC-P.

Target

Function	Binds to a retinoid X receptor (RXR) responsive element from the cellular retinol-binding protein II
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promoter (CRBP/II-RXRE). Inhibits the 9-cis-retinoic acid-dependent RXR alpha transcription activation of the retinoic acid responsive element. Active transcriptional corepressor of SMAD2. Links the nodal signaling pathway to the bifurcation of the forebrain and the establishment of ventral midline structures. May participate in the transmission of nuclear signals during development and in the adult, as illustrated by the down-modulation of the RXR alpha activities.

Involvement in disease

Holoprosencephaly 4

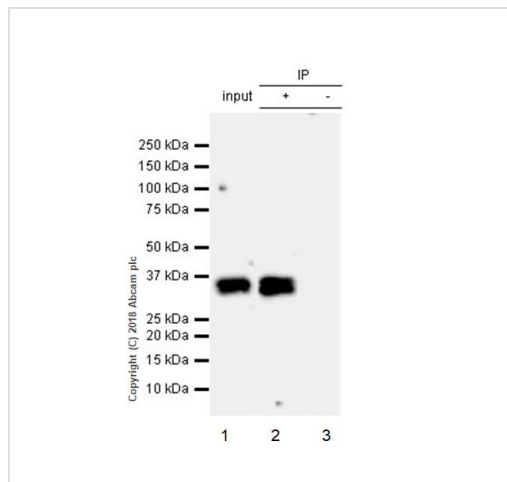
Sequence similarities

Belongs to the TALE/TGIF homeobox family.
Contains 1 homeobox DNA-binding domain.

Cellular localization

Nucleus.

Images



Immunoprecipitation - Anti-TGIF antibody [EP637Y]
(ab52955)

ab52955 (purified) at 1:100 dilution (2µg) immunoprecipitating TGIF in HeLa whole cell lysate.

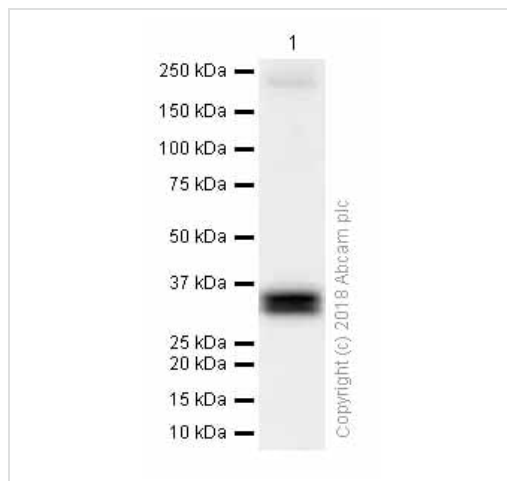
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10µg

Lane 2 (+): ab52955 & HeLa whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab52955 in HeLa whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFD/MTBST.



Western blot - Anti-TGIF antibody [EP637Y]
(ab52955)

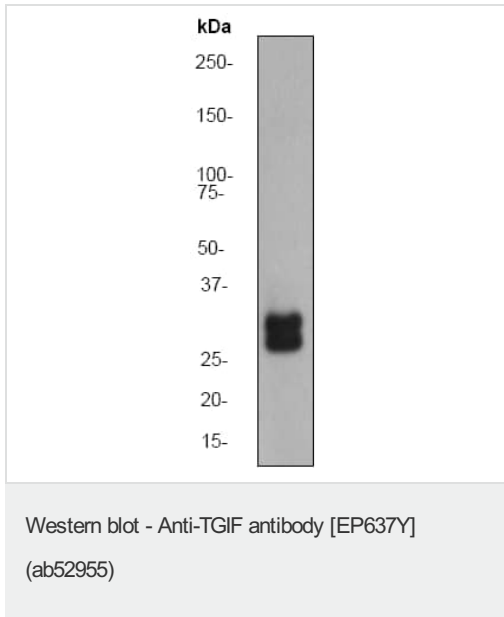
Anti-TGIF antibody [EP637Y] (ab52955) at 0.4 µg/ml (purified) + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 45 kDa

Blocking and diluting buffer: 5% NFD/MTBST.



Anti-TGIF antibody [EP637Y] (ab52955) at 1/1000 dilution
(Unpurified) + K562 cell lysate at 10 µg

Secondary




goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 45 kDa

Observed band size: 30 kDa

[why is the actual band size different from the predicted?](#)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-TGIF antibody [EP637Y] (ab52955)

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

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- Replacement or refund for products not performing as stated on the datasheet
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- 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

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