

Product datasheet

Anti-Tin2 antibody [EPR15319] ab197894

Recombinant RabMAb

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

Overview

Product name	Anti-Tin2 antibody [EPR15319]
Description	Rabbit monoclonal [EPR15319] to Tin2
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment within Human Tin2 aa 200-350. The exact sequence is proprietary. Database link: Q9BSI4
Positive control	MCF7, WI38 and HUVEC cell lysate. Mouse brain, heart, kidney and spleen lysate. C6, RAW264.7, PC12 and NIH3T3 cell lysate. Human, mouse and rat thymus lysate.
General notes	

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](#).

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	EPR15319
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab197894** 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		1/1000. Detects a band of approximately 39 kDa (predicted molecular weight: 50 kDa).

Target

Function	Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends; without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Plays a role in shelterin complex assembly.
Tissue specificity	Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Involvement in disease	Defects in TIN2 are a cause of dyskeratosis congenita autosomal dominant (ADCK) [MIM:127550]; also known as dyskeratosis congenita Scoggins type. ADCK is a rare, progressive bone marrow failure syndrome characterized by the triad of reticulated skin hyperpigmentation, nail dystrophy, and mucosal leukoplakia. Early mortality is often associated with bone marrow failure, infections, fatal pulmonary complications, or malignancy. Defects in TIN2 are a cause of retinopathy exudative with bone marrow failure (ERBMF)

[MIM:268130]; also known as Revesz syndrome. ERBMF is characterized by bilateral exudative retinopathy, bone marrow hypoplasia, nail dystrophy, fine hair, cerebellar hypoplasia, and growth retardation.

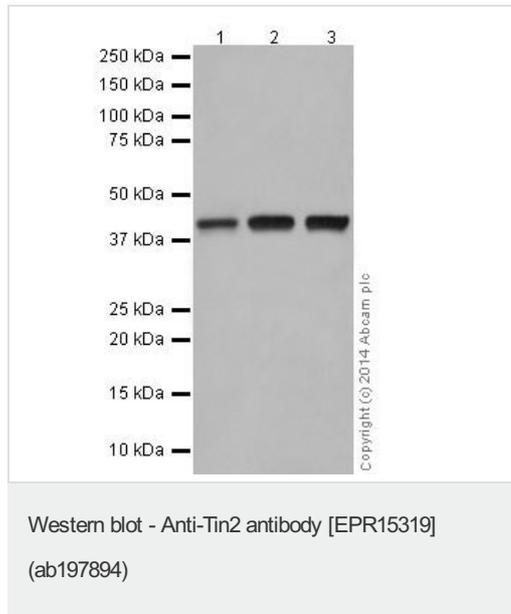
Domain

The TBM domain mediates interaction with TERF1.

Cellular localization

Nucleus. Chromosome > telomere. Associated with telomeres.

Images



All lanes : Anti-Tin2 antibody [EPR15319] (ab197894) at 1/10000 dilution

Lane 1 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : WI38 (Human fetal lung fibroblast cells) whole cell lysate

Lane 3 : HUVEC (Human umbilical vein endothelial cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

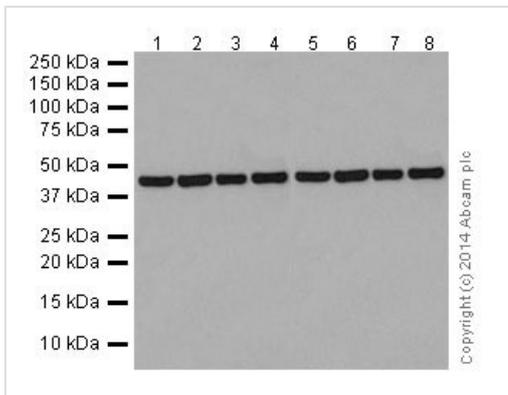
Predicted band size: 50 kDa

Observed band size: 39 kDa

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

Exposure time: 1 minute

5% NFDN/TBST: Blocking and diluting buffer.



Western blot - Anti-Tin2 antibody [EPR15319] (ab197894)

All lanes : Anti-Tin2 antibody [EPR15319] (ab197894) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse heart lysate

Lane 3 : Mouse kidney lysate

Lane 4 : Mouse spleen lysate

Lane 5 : C6 (Rat glial tumor cells) whole cell lysate

Lane 6 : RAW264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 7 : PC12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 8 : NIH3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

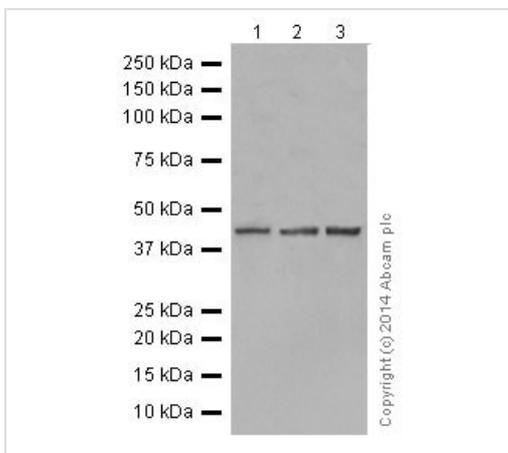
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 50 kDa

Observed band size: 38 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 30 seconds

5% NFDm/TBST: Blocking and diluting buffer.



Western blot - Anti-Tin2 antibody [EPR15319] (ab197894)

All lanes : Anti-Tin2 antibody [EPR15319] (ab197894) at 1/2000 dilution

Lane 1 : Human thymus lysate

Lane 2 : Mouse thymus lysate

Lane 3 : Rat thymus lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 50 kDa

Observed band size: 38 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 1 minute

5% NFDM/TBST: Blocking and diluting buffer.

Why choose a recombinant antibody?



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

Anti-Tin2 antibody [EPR15319] (ab197894)

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

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