abcam

Product datasheet

Anti-TIM44 antibody [EPR16821] ab194829

Recombinant RabMAb

5 References 6 Images

Overview

Product name Anti-TIM44 antibody [EPR16821]

Description Rabbit monoclonal [EPR16821] to TIM44

Host species Rabbit

Tested applications Suitable for: WB, ICC/IF, IP, IHC-P

Species reactivity Reacts with: Mouse, Human

Immunogen Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

Positive control A431, HepG2 and K562 cell lysates; Mouse heart lysate; Human endometrial adenocarcinoma

tissue; A431 cells.

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**.

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: 7.2

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity Protein A purified

Clonality Monoclonal Clone number EPR16821

Isotype ΙgG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab194829 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 - 1/10000. Detects a band of approximately 45 kDa (predicted molecular weight: 51 kDa).
ICC/IF		1/50.
IP		1/20.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

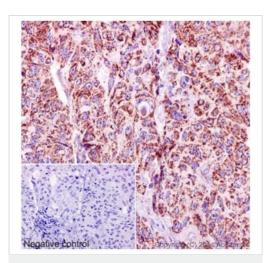
Relevance

TIM44 is the essential component of the PAM complex, a complex required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. It recruits mitochondrial HSP70 to drive protein translocation into the matrix using ATP as an energy source.

Cellular localization

Mitochondrion inner membrane.

Images



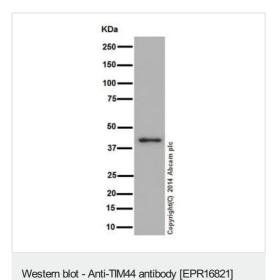
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-TIM44 antibody
[EPR16821] (ab194829)

Immunohistochemical analysis of paraffin-embedded Human endometrial adenocarcinoma tissue labeling TIM44 with ab194829 at 1/100 dilution (5µg/ml). A Goat Anti-Rabbit lgG H&L (HRP) at 1/500 dilution was used as secondary (ab97051).

Counterstain: Hematoxylin.

Inset image: negative control obtained using PBS instead of ab194829. Cytoplasm staining on humanendometrial adenocarcinoma was observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



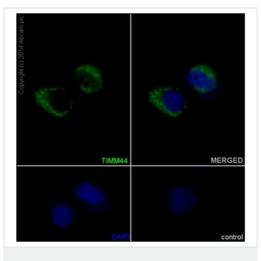
(ab194829)

Anti-TlM44 antibody [EPR16821] (ab194829) at 1/1000 dilution + Mouse heart tissue lysate at 10 μg

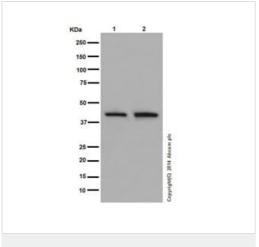
Secondary

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

Predicted band size: 51 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TIM44 antibody [EPR16821] (ab194829) Immunofluorescent analysis of A431 cells labeling TIM44 with ab194829 at 1/50 dilution. A Goat anti rabbit IgG (Alexa Fluor488) at 1/400 dilution (ab150077) was used as secondary antibody. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% triton X-100. Counterstain: DAPI. Cytoplasm staining on A431 cell line was observed.



Western blot - Anti-TIM44 antibody [EPR16821] (ab194829)

All lanes : Anti-TIM44 antibody [EPR16821] (ab194829) at 1/5000 dilution

Lane 1 : A431 cell lysate

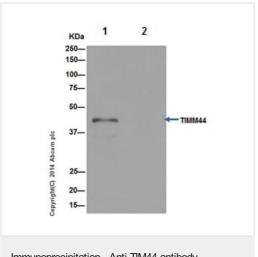
Lane 2 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

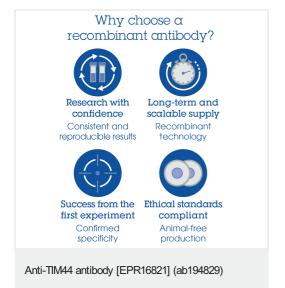
All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 51 kDa



Immunoprecipitation - Anti-TIM44 antibody [EPR16821] (ab194829)

Immunoprecipitation analysis of immunoprecipitation pellet from K562 cell lysate immunoprecipitated using **ab194826** at 1/20 dilution (Lane 1). Lane 2: PBS instead of K562 cell lysate. ab194829 at 1/1000 was used for subsequent western blot detection. Anti-Rabbit lgG (HRP), specific to the non-reduced form of lgG at 1/1500 was used as secondary antibody.



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