

Product datasheet

Anti-TRC40 antibody [EPR11423] ab169539

Recombinant RabMAb

7 Images

Overview

Product name	Anti-TRC40 antibody [EPR11423]
Description	Rabbit monoclonal [EPR11423] to TRC40
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human TRC40 aa 300-400. The exact sequence is proprietary. Database link: O43681
Positive control	Fetal brain, fetal kidney, HeLa and 293T lysates. Human colon and Human lung tissue. HeLa and permeabilized 293T cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number EPR11423

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab169539 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 (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.
IP		1/10 - 1/100.

Target

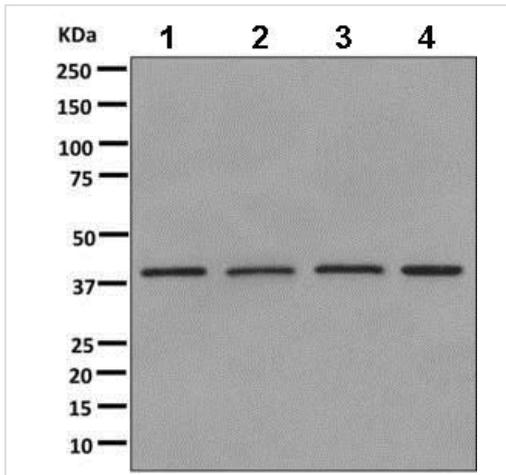
Function ATPase required for the post-translational delivery of tail-anchored (TA) proteins to the endoplasmic reticulum. Recognizes and selectively binds the transmembrane domain of TA proteins in the cytosol. This complex then targets to the endoplasmic reticulum by membrane-bound receptors, where the tail-anchored protein is released for insertion. This process is regulated by ATP binding and hydrolysis. ATP binding drives the homodimer towards the closed dimer state, facilitating recognition of newly synthesized TA membrane proteins. ATP hydrolysis is required for insertion. Subsequently, the homodimer reverts towards the open dimer state, lowering its affinity for the membrane-bound receptor, and returning it to the cytosol to initiate a new round of targeting (By similarity). May be involved in insulin signaling.

Tissue specificity Expressed in the epithelial cells of the liver, kidney, and stomach wall, in the adrenal medulla, in the islet cells of the pancreas, in the red pulp of the spleen, and in cardiac and skeletal muscle.

Sequence similarities Belongs to the arsA ATPase family.

Cellular localization Cytoplasm. Endoplasmic reticulum. Nucleus > nucleolus.

Images



Western blot - Anti-TRC40 antibody [EPR11423] (ab169539)

All lanes : Anti-TRC40 antibody [EPR11423] (ab169539) at 1/10000 dilution

Lane 1 : Fetal brain lysate

Lane 2 : Fetal kidney lysate

Lane 3 : HeLa lysate

Lane 4 : 293T lysate

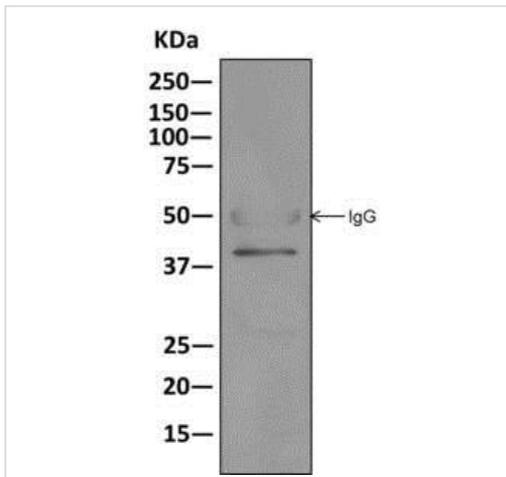
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 39 kDa

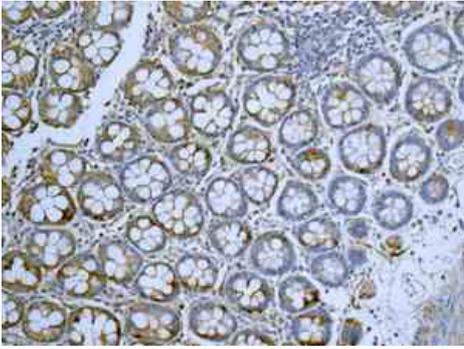
Observed band size: 39 kDa



Immunoprecipitation - Anti-TRC40 antibody [EPR11423] (ab169539)

Immunoprecipitation. ab169539 at 1/10000 staining TRC40 in 293T cell lysate immunoprecipitated using ab169539 at 1/10.

Predicted band size : 39 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRC40 antibody [EPR11423] (ab169539)

Immunohistochemical analysis of paraffin embedded Human colon tissue labeling TRC40 with ab169539 antibody at 1/50.

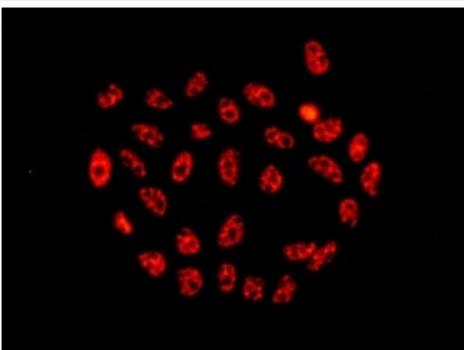
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRC40 antibody [EPR11423] (ab169539)

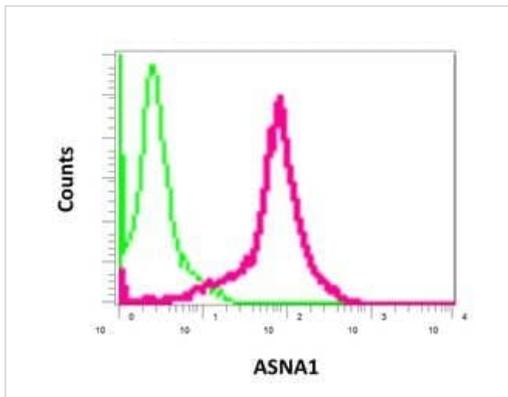
Immunohistochemical analysis of paraffin embedded Human lung tissue labeling TRC40 with ab169539 antibody at 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TRC40 antibody [EPR11423] (ab169539)

Immunofluorescent analysis of HeLa cells labeling TRC40 with ab169539 at 1/250.



Intracellular flow cytometrical analysis of permeabilized 293T cells with ab169539 antibody at a dilution of 1/10 (red) or a rabbit IgG (negative) (green).

Flow Cytometry (Intracellular) - Anti-TRC40 antibody [EPR11423] (ab169539)

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

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

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