abcam

Product datasheet

Anti-TOMM20 antibody - Mitochondrial Marker ab78547

★★★☆☆ **6 Abreviews**　**84 References**　　4 图像

概述

产品名称	Anti-TOMM20抗体- Mitochondrial Marker
描述	兔多克隆抗体to TOMM20 - Mitochondrial Marker
宿主	Rabbit
特异性	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
经测试应用	**适用于：** ICC/IF, IP, WB, IHC-P
种属反应性	**与反应：** Human
	预测可用于： Mouse, Rat, Orangutan ⚠
免疫原	Synthetic peptide corresponding to Human TOMM20 aa 100 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab88207**)
阳性对照	This antibody gave a positive signal in HepG2 whole cell lysate.
常规说明	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.
	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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee　　**Abpromise™承诺保证使用ab78547于以下的经测试应用**

"应用说明"部分 下显示的仅为**推荐的起始稀释度**;实际**最佳的稀释度/浓度**应**由使用者**检定。

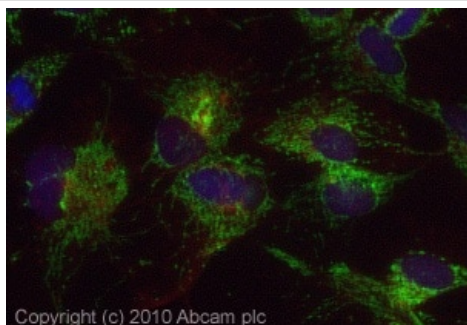| 应用	Ab评论	说明
ICC/IF	★★★☆☆ (3)	Use a concentration of 1 µg/ml.
IP		Use a concentration of 5 µg/ml.
WB	★★★★☆ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
IHC-P	★★★★☆ (1)	Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

功能	Central component of the receptor complex responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with TOM22 functions as the transit peptide receptor at the surface of the mitochondrion outer membrane and facilitates the movement of preproteins into the TOM40 translocation pore.
序列相似性	Belongs to the Tom20 family.
细胞定位	Mitochondrion outer membrane.

图片

Immunocytochemistry/ Immunofluorescence - Anti-
TOMM20 antibody - Mitochondrial Marker (ab78547)

ICC/IF image of ab78547 stained HepG2 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab78547, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) HeLa, Hek293, MCF-7 cells at 1µg/ml, and in 100% Methanol fixed (5 min) HepG2, HeLa, Hek293, MCF-7 cells at 1µg/ml.

Western blot - Anti-TOMM20 antibody -

Mitochondrial Marker (ab78547)

Anti-TOMM20 antibody - Mitochondrial Marker (ab78547) at 1 µg/ml + HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate at 10 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution
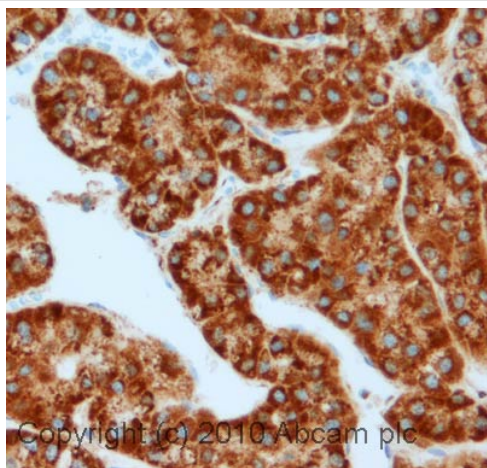
Developed using the ECL technique.

Performed under reducing conditions.
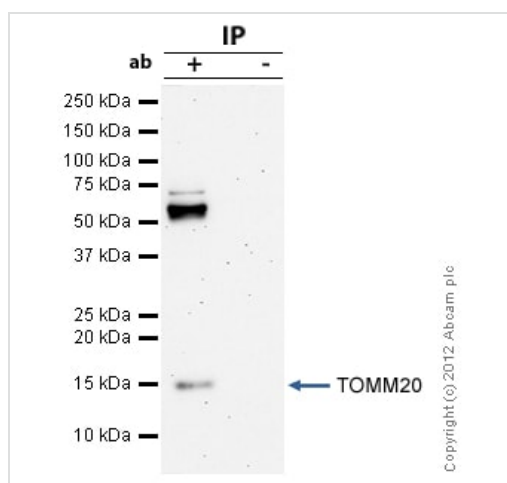
Predicted band size: 16 kDa
Observed band size: 16 kDa
Additional bands at: 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

IHC image of TOMM20 staining in Human Liver carcinoma 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 ab78547, 1µg/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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TOMM20 antibody - Mitochondrial Marker (ab78547)

TOMM20 was immunoprecipitated using 0.5mg HepG2 whole cell extract, 5µg of Rabbit polyclonal to TOMM20 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, HepG2 whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab78547.

Secondary: Clean-Blot IP Detection Reagent (HRP) at 1/500 dilution.

Band: 16kDa; TOMM20.

Immunoprecipitation - Anti-TOMM20 antibody - Mitochondrial Marker (ab78547)

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