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## **Human TOMM20 antibody**

Catalog Number: ATGA0482

### PRODUCT INFORMATION

## Catalog number

ATGA0482

#### Clone No.

AT1B2

## **Product type**

Monoclonal Antibody

#### UnitProt No.

Q15388

## **NCBI Accession No.**

NP 055580

#### **Alternative Names**

Translocase of outer mitochondrial membrane 20, Translocase of outer mitochondrial membrane 20 homolog, Translocase of outer mitochondrial membrane 20 homolog type II, Mitochondrial import receptor subunit TOM20 homolog, Mitochondrial 20 kDa outer membrane protein, Outer mitochondrial membrane receptor Tom20, TOM20, MOM19, MAS20

## **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

## **Reacts With**

Human

## Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human Tomm20 (25-145aa) purified from E. coli

#### Isotype

IgG1 kappa

## **Purification Note**

By protein-A affinity chromatography

## **Application**

ELISA, WB, ICC/IF, FACS

### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain



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optimal results.

### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

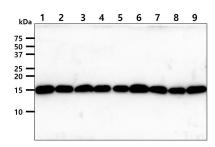
Mitochondrial import receptor subunit TOMM20 homolog, also known as TOMM20, belongs to the Tom20 family. The Tom machinery consists of import receptors for the initial binding of cytosolically synthesized preproteins and a general import pore (GIP) for the membrane translocation of various preproteins into the mitochondria. TOMM20 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.

#### **General References**

Ahting U., et al. (1999) J Cell Biol. 147: 959-968. Brix J., et al. (1999) J Biol Chem. 274: 16522-16530.

## **DATA**

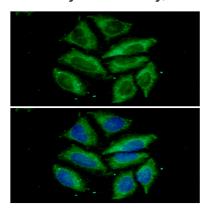
## Western blot analysis (WB)



The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Tomm20 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: A431 cell lysate Lane 4.: K562 cell lysate Lane 5.: A549 cell lysate Lane 6.: 293T cell lysate Lane 7.: MCF7 cell lysate Lane 8.: SK-OV-3 cell lysate Lane 9.: PC3 cell lysate

## Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of Tomm20 in HeLa cells. The cell was stained with ATGA0482 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

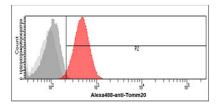


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## Flow cytometry (FACS)



Flow cytometry analysis of Tomm20 in HeLa cells. The cell was stained with ATGA0482 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

