

# Human TOMM20 antibody

Catalog Number: ATGA0482

## PRODUCT INFORMATION

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**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

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**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

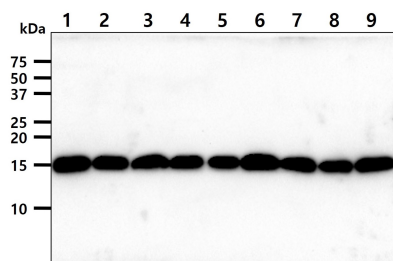
Mitochondrial import receptor subunit TOMM20 homolog, also known as TOMM20, belongs to the Tom20 family. The Tom machinery consists of import receptors for the initial binding of cytosolically synthesized preproteins and a general import pore (GIP) for the membrane translocation of various preproteins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

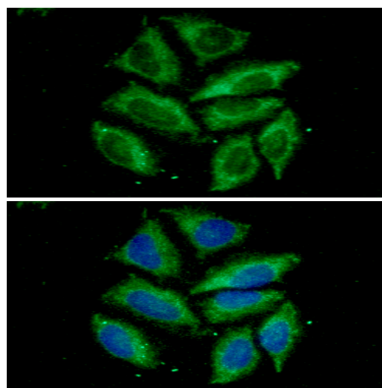
### Western blot analysis (WB)



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)

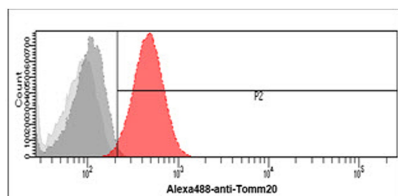


ICC/IF analysis of Tomm20 in HeLa cells. The cell was stained with ATGA0482 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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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  $1 \times 10^6$  cells (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).