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

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.

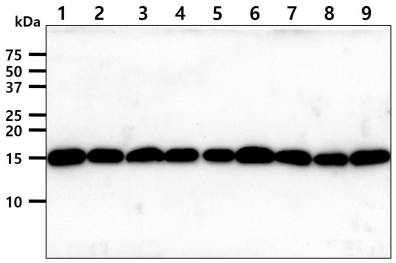
BACKGROUND

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.

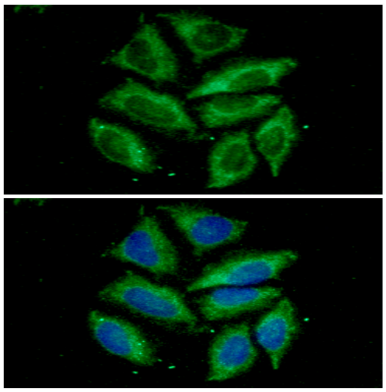
DATA

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)

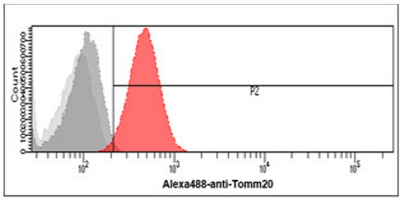


ICC/IF analysis of Tomm20 in HeLa cells. The cell was stained with ATGA0482 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Human TOMM20 antibody

Catalog Number: ATGA0482

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).