

## Anti-TOMM20 Antibody (6C702)

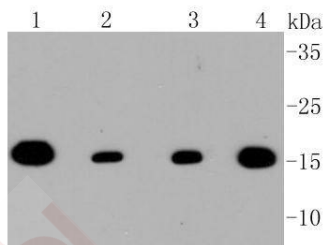
### Product Details

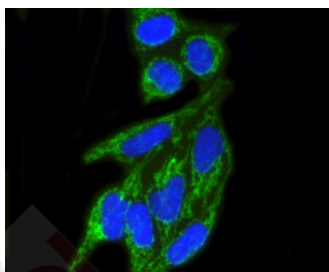
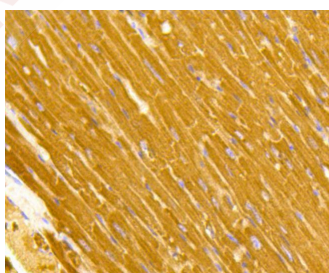
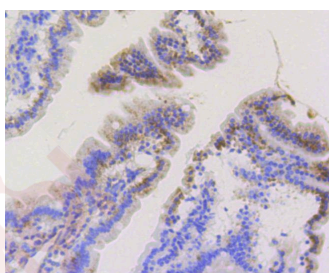
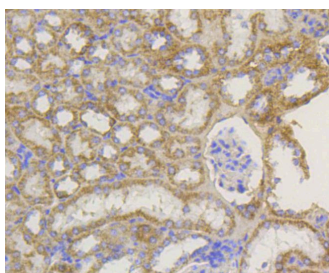
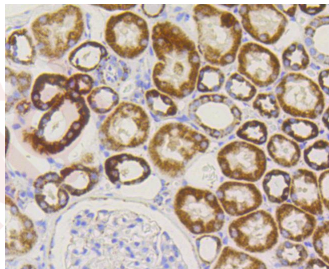
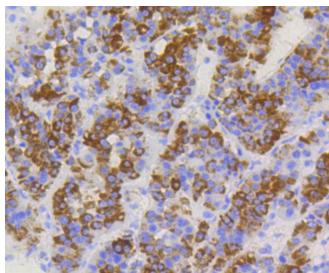
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 16 kDa.
Clone:	6C702
Purification:	ProA affinity purified

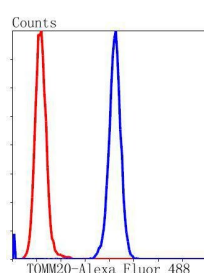
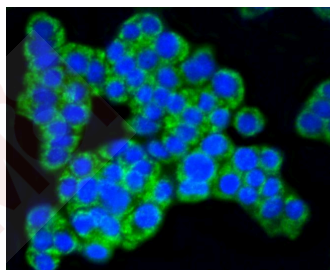
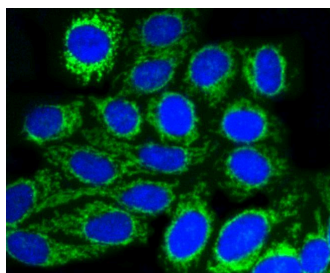
### Applications

1. Western blot analysis of TOMM20 on different lysates using anti-TOMM20 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: MCF-7, Lane 3: F9, Lane 4: PC12.
2. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-TOMM20 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-TOMM20 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-TOMM20 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-TOMM20 antibody. Counter stained with hematoxylin. The nuclear counter stain is DAPI (blue).
6. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-TOMM20 antibody. Counter stained with hematoxylin.
7. ICC staining TOMM20 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining TOMM20 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining TOMM20 in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Hela cells with TOMM20 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Verified Activity:







Application: FCM, ICC/IF, IHC, IP, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q15388

Synonyms: MGC117367; Translocase of outer mitochondrial membrane 20 homolog type II; TOM20; MAS20; Outer mitochondrial membrane receptor Tom20; MOM19; KIAA0016; Mitochondrial import receptor subunit TOM20 homolog; TOM 20; Translocase of outer mitochondrial membrane 20 homolog (yeast); Mitochondrial 20 kDa outer membrane protein

### Research Background

The mitochondrial preprotein translocases of the outer membrane (Tom) is a multisubunit protein complex that facilitates the import of nucleus-encoded precursor proteins across the mitochondrial outer membrane. 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. The import receptors include Tom20 and Tom22, which form a heteromeric receptor complex that initiates the insertion of newly synthesized proteins into the outer membrane and then directs the precursor protein into the GIP. In yeast, Tom22 is the essential component of the import receptor complex as it functions as both a receptor for the preproteins and serves as a docking point for both Tom20 and the GIP. Tom22 directly associates with Tom40, the major component of the GIP, and thereby forms a stable interaction between the two core complexes to facilitate the fluid movement of preproteins into the mitochondria. The insertion of Tom40 into the Tom machinery requires the initial binding of

Tom40 to Tom20 and leads to the efficient incorporation of Tom40 precursors into preexisting Tom complexes.

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