

TOMM22 / TOM22 Antibody (clone 4G4)
Mouse Monoclonal Antibody
Catalog # ALS14896**Specification**

TOMM22 / TOM22 Antibody (clone 4G4) - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	O9NS69
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	16kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

TOMM22 / TOM22 Antibody (clone 4G4) - Additional Information**Gene ID** 56993**Other Names**

Mitochondrial import receptor subunit TOM22 homolog, hTom22, 1C9-2, Translocase of outer membrane 22 kDa subunit homolog, TOMM22, TOM22

Target/Specificity

Human TOMM22

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

TOMM22 / TOM22 Antibody (clone 4G4) is for research use only and not for use in diagnostic or therapeutic procedures.

TOMM22 / TOM22 Antibody (clone 4G4) - Protein Information**Name** TOMM22**Synonyms** TOM22**Function**

Central receptor component of the translocase of the outer membrane of mitochondria (TOM complex) responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with the peripheral receptor TOM20 functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore (PubMed:10982837). Required for the translocation across the mitochondrial outer membrane of cytochrome P450

monooxygenases (By similarity).

Cellular Location

Mitochondrion outer membrane; Single-pass membrane protein

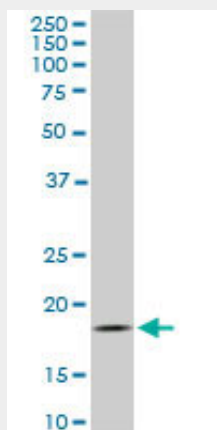
Tissue Location

Ubiquitous.

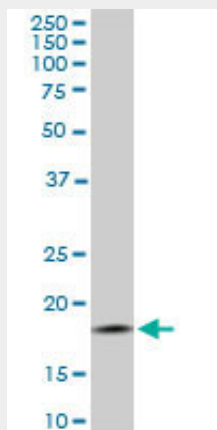
TOMM22 / TOM22 Antibody (clone 4G4) - Protocols

Provided below are standard protocols that you may find useful for product applications.

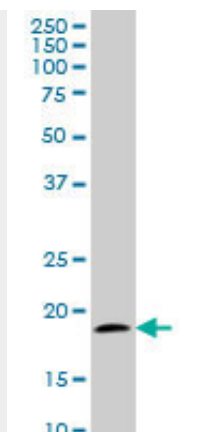
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TOMM22 / TOM22 Antibody (clone 4G4) - Images

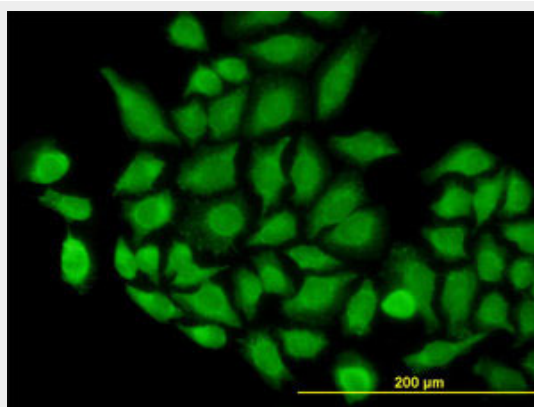
LS-B7222 Western blot of TOMM22 expression in PC-12.



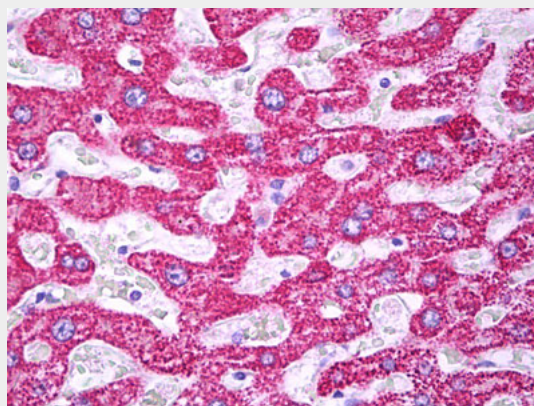
ALS14896 Western blot of TOMM22 expression in Raw 264.7.



ALS14896 Western blot of TOMM22 expression in NIH/3T3.



Immunofluorescence of monoclonal antibody to TOMM22 on HeLa cell. [antibody concentration 10 ug/ml]



Anti-TOMM22 antibody IHC of human liver, hepatocytes.

TOMM22 / TOM22 Antibody (clone 4G4) - Background

Central receptor component of the translocase of the outer membrane of mitochondria (TOM complex) responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with the peripheral receptor TOM20 functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore.

TOMM22 / TOM22 Antibody (clone 4G4) - References

Yano M., et al. Mol. Cell. Biol. 20:7205-7213(2000).

Saeki K.,et al.J. Biol. Chem. 275:31996-32002(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Bienvenut W.V.,et al.Submitted (JUN-2005) to UniProtKB.