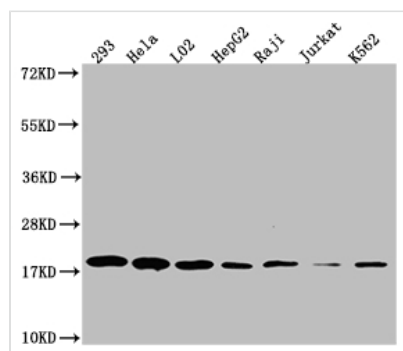




TOMM22 Recombinant Monoclonal Antibody

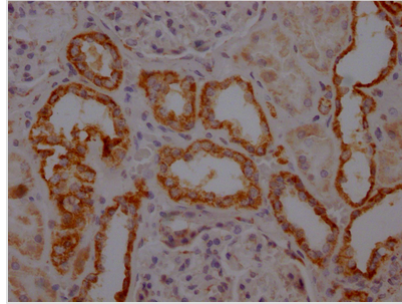
Product Code	CSB-RA277640A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9NS69
Immunogen	A synthesized peptide derived from human TOMM22
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Other
Gene Names	TOMM22
Clone No.	7C11

Image



Western Blot

Positive WB detected in: 293 whole cell lysate, HeLa whole cell lysate, L02 whole cell lysate, HepF2 whole cell lysate, Raji whole cell lysate, Jurkat whole cell lysate, K562 whole cell lysate
 All lanes: TOMM22 antibody at 1:1000
 Secondary
 Goat polyclonal to rabbit IgG at 1/50000 dilution
 Predicted band size: 16 kDa
 Observed band size: 18 kDa



IHC image of CSB-RA277640A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

TOMM22 encodes TOM22, an essential component of the protein translocation complex (Tom complex) of the mitochondrial outer membrane. TOM22 serves as the central receptor for both presequence precursors and carrier precursors. The N-terminal domain of TOM22 functions as a preprotein receptor in cooperation with TOM20. In addition to functioning as an import receptor, TOM22 forms a conducting channel with TOM40, a major component of the general insertion pore. TOM22 deficiency might induce cardiomyocyte dysfunction by interfering with cardiac mitochondrial Ca²⁺ import.

The vectors expressing anti-TOMM22 antibody were constructed as follows: immunizing an animal with A synthesized peptide derived from human TOMM22, isolating the positive splenocyte and extracting RNA, obtaining DNA by reverse transcription, sequencing and screening TOMM22 antibody gene, and amplifying heavy and light chain sequence by PCR and cloning them into plasma vectors. After that, the vector clones were transfected into the mammalian cells for production. The product is the recombinant TOMM22 antibody. Recombinant TOMM22 antibody in the culture medium was purified using Affinity-chromatography. It can react with TOMM22 protein from Human and is used in the ELISA, WB, IHC.