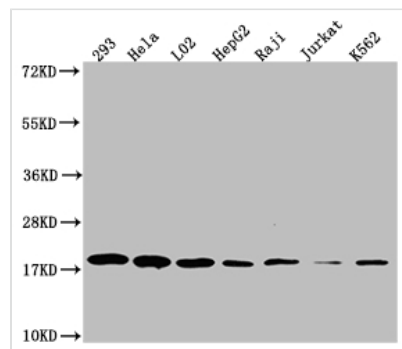




# TOMM22 Antibody

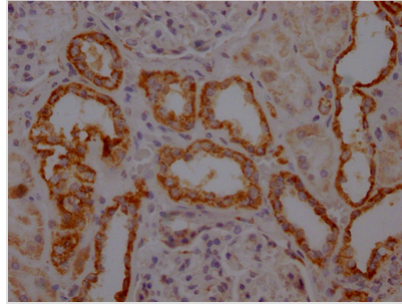
<b>Product Code</b>	CSB-RA277640A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	Q9NS69
<b>Immunogen</b>	A synthesized peptide derived from human TOMM22
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
<b>Relevance</b>	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.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Other
<b>Gene Names</b>	TOMM22
<b>Accession NO.</b>	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 Bond™ 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°C 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 Ca<sup>2+</sup> 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.