
Product Name: KD-Validated TIMM50 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00866**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 39.6kDa

Antigen Information

Gene Name	TIMM50 TIMM50; Translocase Of Inner Mitochondrial Membrane 50; TIM50; TIM50L; Mitochondrial
Alternative Names	Import Inner Membrane Translocase Subunit TIM50; Translocase Of Inner Mitochondrial Membrane 50 Homolog (Yeast); Homolog Of Yeast Tim50; Tim50-Like Protein; MGCA9
Gene ID	92609.0
SwissProt ID	Q3ZCQ8
Immunogen	A synthesized peptide derived from human TIMM50

Background

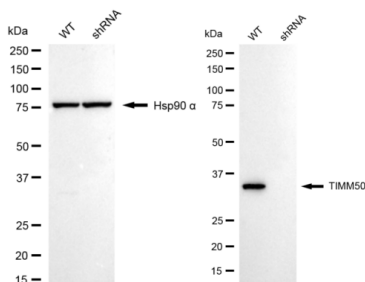
This gene encodes a subunit of the TIM23 inner mitochondrial membrane translocase complex. The encoded protein functions as the receptor subunit that recognizes the mitochondrial targeting signal, or presequence, on protein cargo that is destined

for the mitochondrial inner membrane and matrix. This protein may also play a role in maintaining the membrane permeability barrier, and knockdown of this gene in human cells results in the release of cytochrome c and apoptosis. [provided by RefSeq, Jul 2016]

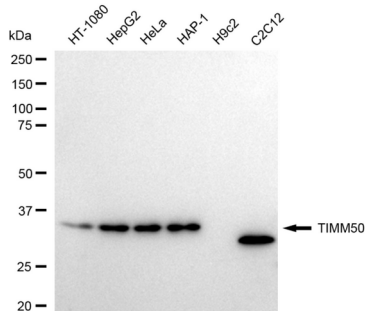
Research Area

Signal Transduction, Metabolism

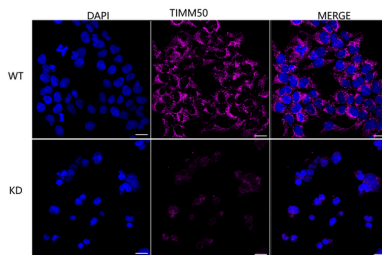
Image Data



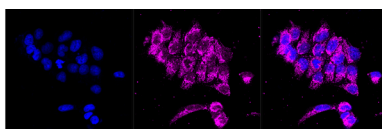
Western blotting analysis using TIMM50 antibody (KVA00866). TIMM50 expression in wild type (WT) and TIMM50 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TIMM50 antibody (KVA00866, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



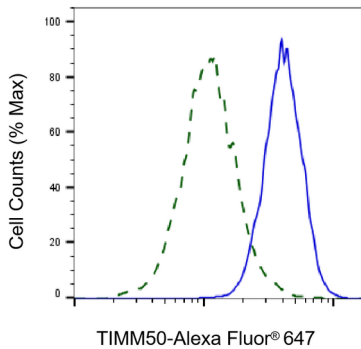
Western blotting analysis using TIMM50 antibody (KVA00866). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TIMM50 antibody (KVA00866, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



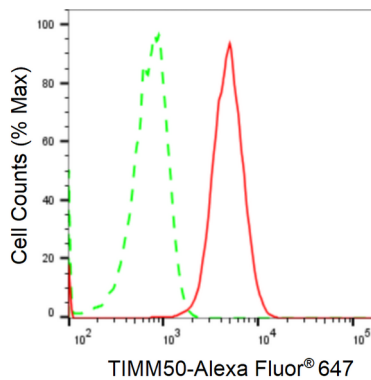
Immunocytochemical staining of HeLa cells using TIMM50 antibody (KVA00866, 1:1,000), Top panel: wild-type (WT); Bottom panel: TIMM50 shRNA knockdown (KD). Nuclei were stained blue with DAPI; TIMM50 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HAP-1 cells with TIMM50 antibody (KVA00866, 1:1,000). Nuclei were stained blue with DAPI; was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of TIMM50 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with TIMM50 antibody (KVA00866, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of TIMM50 expression in HAP-1 cells using TIMM50 antibody (KVA00866, 1:2,000). Green, isotype control; red, TIMM50.