

# TIMM50 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19064a

## Product Information

---

Application	WB, E
Primary Accession	<a href="#">Q3ZCQ8</a>
Other Accession	<a href="#">NP_001001563.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39839
Calculated MW	39646
Antigen Region	74-104

## Additional Information

---

Gene ID	92609
Other Names	Mitochondrial import inner membrane translocase subunit TIM50, TIMM50, TIM50
Target/Specificity	This TIMM50 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 74-104 amino acids from the N-terminal region of human TIMM50.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TIMM50 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

Name	TIMM50
Synonyms	TIM50
Function	Essential component of the TIM23 complex, a complex that mediates the

translocation of transit peptide-containing proteins across the mitochondrial inner membrane (PubMed:[30190335](#), PubMed:[38828998](#)). Has some phosphatase activity in vitro; however such activity may not be relevant in vivo.

<b>Cellular Location</b>	Mitochondrion inner membrane; Single-pass membrane protein
<b>Tissue Location</b>	Widely expressed. Expressed at higher level in brain, kidney and liver (at protein level)

## Background

---

Essential component of the TIM23 complex, a complex that mediates the translocation of transit peptide-containing proteins across the mitochondrial inner membrane. Has some phosphatase activity in vitro; however such activity may not be relevant in vivo. Isoform 2 may participate in the release of snRNPs and SMN from the Cajal body.

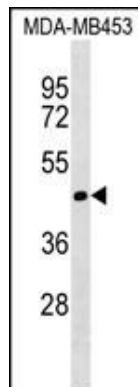
## References

---

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :  
Xu, H., et al. BMC Cell Biol. 6 (1), 29 (2005) :  
Guo, Y., et al. J. Biol. Chem. 279(23):24813-24825(2004)  
Yuryev, A., et al. Genomics 81(2):112-125(2003)  
Yamamoto, H., et al. Cell 111(4):519-528(2002)

## Images

---



TIMM50 Antibody (N-term) (Cat. #AP19064a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the TIMM50 antibody detected the TIMM50 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.