

**ATAD1 Antibody (C-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP9194b**Specification**

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**ATAD1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q8NBU5](#)**ATAD1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 84896

**Other Names**

ATPase family AAA domain-containing protein 1, Thorase, ATAD1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9194b](/products/AP9194b) was selected from the C-term region of human ATAD1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ATAD1 Antibody (C-term) Blocking Peptide - Protein Information**

Name ATAD1 {ECO:0000303|PubMed:24843043, ECO:0000312|HGNC:HGNC:25903}

**Function**

Outer mitochondrial translocase required to remove mislocalized tail-anchored transmembrane proteins on mitochondria (PubMed:<http://www.uniprot.org/citations/24843043> target="\_blank">24843043</a>). Specifically recognizes and binds tail-anchored transmembrane proteins: acts as a dislocase that mediates the ATP- dependent extraction of mistargeted tail-anchored transmembrane proteins from the mitochondrion outer membrane (By similarity). Also plays a critical role in regulating the surface expression of AMPA receptors (AMPA), thereby regulating synaptic plasticity and learning and memory (By similarity). Required for NMDA-stimulated AMPAR internalization and inhibition of GRIA1 and GRIA2 recycling back to the plasma membrane; these activities are ATPase-dependent (By similarity).

**Cellular Location**

Mitochondrion outer membrane; Single-pass membrane protein. Peroxisome membrane;

Single-pass membrane protein. Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q9D5T0};  
Single-pass membrane protein

### **ATAD1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ATAD1 Antibody (C-term) Blocking Peptide - Images**

### **ATAD1 Antibody (C-term) Blocking Peptide - References**

Vasilescu,J., et.al., J. Proteome Res. 6 (1), 298-305 (2007)Olsen,J.V. et.al., Cell 127 (3), 635-648 (2006)