

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

ATAD1 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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>). 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)