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ATAD1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9194b

Specification

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 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}

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)

Function
Outer mitochondrial translocase required to remove mislocalized tail-anchored transmembrane proteins on mitochondria (PubMed: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 (AMPAR), 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. Cell junction, synapse, 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