

**ATAD3A Blocking Peptide (N-term)**  
**Synthetic peptide**  
**Catalog # BP20535a****Specification**

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**ATAD3A Blocking Peptide (N-term) - Product Information**

Primary Accession [Q9NVI7](#)  
Other Accession [Q5T9A4](#)

**ATAD3A Blocking Peptide (N-term) - Additional Information**

**Gene ID** 55210

**Other Names**

ATPase family AAA domain-containing protein 3A, ATAD3A

**Target/Specificity**

The synthetic peptide sequence is selected from aa 34-48 of Human ATAD3A

**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.

**ATAD3A Blocking Peptide (N-term) - Protein Information**

**Name** ATAD3A ([HGNC:25567](#))

**Function**

Essential for mitochondrial network organization, mitochondrial metabolism and cell growth at organism and cellular level. May play an important role in mitochondrial protein synthesis. May also participate in mitochondrial DNA replication. May bind to mitochondrial DNA D-loops and contribute to nucleoid stability. Required for enhanced channeling of cholesterol for hormone-dependent steroidogenesis. Involved in mitochondrial-mediated antiviral innate immunity (PubMed:<a href="http://www.uniprot.org/citations/31522117" target="\_blank">31522117</a>).

**Cellular Location**

Mitochondrion inner membrane; Single-pass membrane protein. Mitochondrion matrix, mitochondrion nucleoid Note=In the mitochondrial inner membrane, enriched in sites with the potential to form contacts with the outer membrane (PubMed:20349121, PubMed:20154147). The N-terminal domain interacts with the inner surface of the mitochondrial outer membrane and the C-terminal domain localizes in a specific matrix compartment, where it is associated with nucleoids

(PubMed:18063578).

**Tissue Location**

Overexpressed in lung adenocarcinomas (at protein level).

**ATAD3A Blocking Peptide (N-term) - Protocols**

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

- [Blocking Peptides](#)

**ATAD3A Blocking Peptide (N-term) - Images****ATAD3A Blocking Peptide (N-term) - References**

Ota T., et al. Nat. Genet. 36:40-45(2004).  
Gregory S.G., et al. Nature 441:315-321(2006).  
Bienvenut W.V., et al. Submitted (JUL-2007) to UniProtKB.  
Daub H., et al. Mol. Cell 31:438-448(2008).  
Choudhary C., et al. Science 325:834-840(2009).