

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

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:31522117).

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).