10320 Camino Santa Fe, Suite G
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TTLL8 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16827a

Specification

TTLL8 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	A6PVC2
Other Accession	http://www.uniprot.org/uniprot/A6PVC2==A6PVC2

TTLL8 Antibody (N-term) Blocking Peptide - Additional Information

Other Names
Protein monoglycylase TTLL8, 632-, Tubulin--tyrosine ligase-like protein 8, TTLL8

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.

TTLL8 Antibody (N-term) Blocking Peptide - Protein Information

Name TTLL8 (HGNC:34000)

Function
Monoglycylase which modifies both tubulin and non-tubulin proteins, adding a single glycine to the gamma-carboxyl groups of specific glutamate residues to generate monoglycine side chains within the C-terminal tail of target proteins. Not involved in elongation step of the polyglycylation reaction. Preferentially monoglycylates alpha- tubulin over beta-tubulin. Together with TTLL3, mediates microtubule glycylation of primary and motile cilia, which is essential for their stability and maintenance. Together with TTLL3, glycylates sperm flagella which regulates axonemal dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male fertility. Monoglycylates non-tubulin proteins such as ANP32A, ANP32B, SET, NCL and NAP1.

Cellular Location
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A4Q9F1}. Cell projection, cilium {ECO:0000250|UniProtKB:A4Q9F1}. Cytoplasm, cytoskeleton, cilium axoneme {ECO:0000250|UniProtKB:A4Q9F1}. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:A4Q9F1}

TTLL8 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

TTLL8 Antibody (N-term) Blocking Peptide - Images

TTLL8 Antibody (N-term) Blocking Peptide - Background

Monoglycylase which modifies both tubulin and non-tubulin proteins, generating side chains of glycine on the gamma-carboxyl groups of specific glutamate residues of target proteins. Monoglycylates tubulin, with a preference for alpha-tubulin toward beta-tubulin. Has the ability to modify non-tubulin proteins such as ANP32A, ANP32B, SET and NCL. Involved in the side-chain initiation step of the glycylation reaction by adding a single glycine chain to generate monoglycine side chains. Not involved in elongation step of the polyglycylation reaction (By similarity).