

CL029 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11154a**Specification**

CL029 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q8N999](#)**CL029 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 91298

Other Names

Uncharacterized protein C12orf29, C12orf29

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.

CL029 Antibody (N-term) Blocking peptide - Protein InformationName RLIG1 ([HGNC:25322](#))**Function**

Functions as an RNA ligase, in vitro (PubMed:36792600). The ligation reaction entails three nucleotidyl transfer steps (PubMed:36792600). In the first step, the RNA ligase reacts with ATP in the absence of nucleic acid to form a covalent ligase-AMP intermediate and release pyrophosphate (PubMed:36792600). In step 2, the ligase-AMP binds to the nucleic acid and transfers the adenylate to the 5'-PO4 terminus to form an adenylylated intermediate (PubMed:36792600). In step 3, the RNA ligase directs the attack of the 3'-OH on the 5'-phosphoanhydride linkage, resulting in a repaired 3'-5' phosphodiester and release of AMP (PubMed:36792600). Exhibits selectivity for single-stranded RNA substrates and may not have nick-sealing activity on double-stranded DNA-RNA hybrids (PubMed:36792600). May play a role in maintaining RNA integrity under stress conditions, for example in response to reactive oxygen species (ROS) (PubMed:36792600).

CL029 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CL029 Antibody (N-term) Blocking peptide - Images**CL029 Antibody (N-term) Blocking peptide - Background**

May be required for endoplasmic reticulum organization (By similarity).

CL029 Antibody (N-term) Blocking peptide - References

Mehrle, A., et al. Nucleic Acids Res. 34 (DATABASE ISSUE), D415-D418 (2006) :Wiemann, S., et al. Genome Res. 14 (10B), 2136-2144 (2004) :