

CAF-1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP11112a**Specification**

CAF-1 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9UIV1](#)**CAF-1 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 29883**Other Names**

CCR4-NOT transcription complex subunit 7, BTG1-binding factor 1, CCR4-associated factor 1, CAF-1, Caf1a, CNOT7, CAF1

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.

CAF-1 Antibody (N-term) Blocking peptide - Protein Information**Name** CNOT7**Synonyms** CAF1**Function**

Has 3'-5' poly(A) exoribonuclease activity for synthetic poly(A) RNA substrate (PubMed:20634287, PubMed:31439799, PubMed:19276069). Its function seems to be partially redundant with that of CNOT8 (PubMed:19605561). Catalytic component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation (PubMed:20634287, PubMed:31439799, PubMed:19276069). During miRNA-mediated repression the complex seems also to act as translational repressor during translational initiation (PubMed:20065043). Additional

complex functions may be a consequence of its influence on mRNA expression (PubMed:23236473, PubMed:19276069). Associates with members of the BTG family such as TOB1 and BTG2 and is required for their anti- proliferative activity (PubMed:23236473, PubMed:19276069).

Cellular Location

Nucleus. Cytoplasm, P-body {ECO:0000250|UniProtKB:Q60809}. Cytoplasm, Cytoplasmic ribonucleoprotein granule. Note=NANOS2 promotes its localization to P-body (By similarity). Recruited to cytoplasmic ribonucleoprotein membraneless compartments by CAPRIN1, promoting deadenylation of mRNAs (PubMed:31439799) {ECO:0000250|UniProtKB:Q60809, ECO:0000269|PubMed:31439799}

CAF-1 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CAF-1 Antibody (N-term) Blocking peptide - Images

CAF-1 Antibody (N-term) Blocking peptide - Background

The protein encoded by this gene binds to an anti-proliferative protein, B-cell translocation protein 1, which negatively regulates cell proliferation. Binding of the two proteins, which is driven by phosphorylation of the anti-proliferative protein, causes signaling events in cell division that lead to changes in cell proliferation associated with cell-cell contact. The protein has both mouse and yeast orthologs. Alternate splicing of this gene results in two transcript variants encoding different isoforms.

CAF-1 Antibody (N-term) Blocking peptide - References

Lau, N.C., et al. Biochem. J. 422(3):443-453(2009) Aslam, A., et al. Mol. Biol. Cell 20(17):3840-3850(2009) Miyasaka, T., et al. Cancer Sci. 99(4):755-761(2008) Nishida, K., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 63 (PT 12), 1061-1063 (2007) :Robin-Lespinasse, Y., et al. J. Cell. Sci. 120 (PT 4), 638-647 (2007) :