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CAF-1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11112a

Specification

CAF-1 Antibody (N-term) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	Q9UIV1
Other Accession	Q3KQ85, Q60809, Q08BM8, Q5ZJV9, Q3ZC01, NP_473367.2
Reactivity	**Human**
Predicted	**Bovine, Chicken, Zebrafish, Mouse, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**32745**
Antigen Region	**34-61**

CAF-1 Antibody (N-term) - 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

Target/Specificity
This CAF-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-61 amino acids from the N-terminal region of human CAF-1.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CAF-1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CAF-1 Antibody (N-term) - Images

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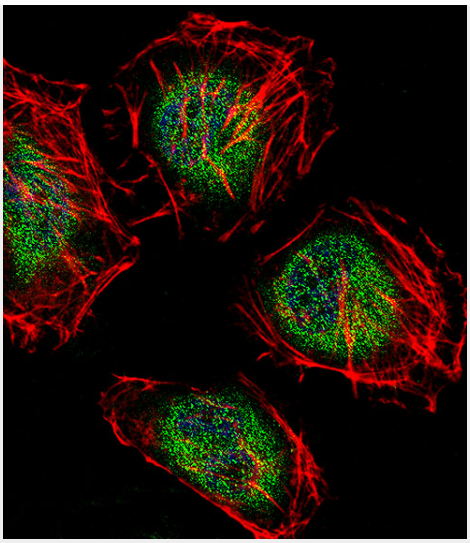
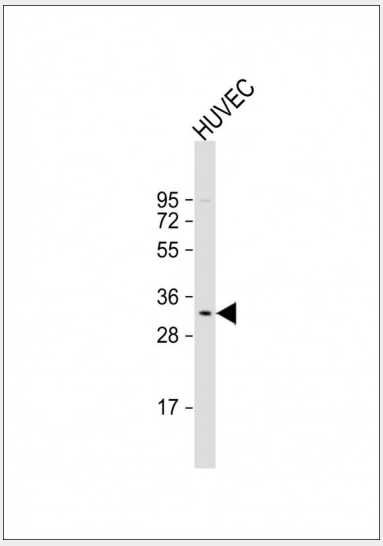


Fluorescent confocal image of Hela cell stained with CAF-1 Antibody (N-term)(Cat#AP11112a).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CAF-1 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). CAF-1 immunoreactivity is localized to Cytoplasm and Nucleus significantly.



Anti-CAF-1 Antibody (N-term) at 1:1000 dilution + HUVEC whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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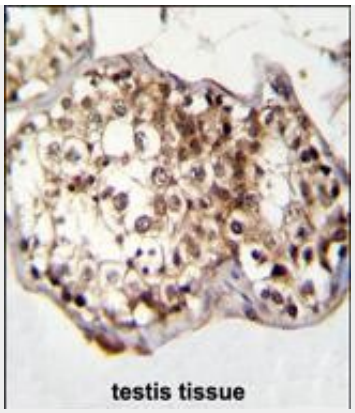

CAF-1 Antibody (N-term) (Cat. #AP11112a)immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CAF-1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CAF-1 Antibody (N-term) - 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) - 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) :