

CNOT7 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI10068

Product Information

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| Application | WB |
| Primary Accession | Q9UIV1 |
| Other Accession | Q9UIV1 , NP_037486 , NM_013354 |
| Reactivity | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine, Yeast |
| Predicted Host | Human, Mouse, Rat, Zebrafish, Pig, Chicken, Goat, Dog, Bovine |
| Clonality | Rabbit |
| Calculated MW | Polyclonal 32745 |

Additional Information

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| Gene ID | 29883 |
| Alias Symbol | CAF1, hCAF-1 |
| Other Names | CCR4-NOT transcription complex subunit 7, BTG1-binding factor 1, CCR4-associated factor 1, CAF-1, Caf1a, CNOT7, CAF1 |
| Target/Specificity | CNOT7 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. |
| Format | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-CNOT7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles. |
| Precautions | CNOT7 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | CNOT7 |
| Synonyms | CAF1 |

Function

Has 3'-5' poly(A) exoribonuclease activity for synthetic poly(A) RNA substrate (PubMed:[19276069](#), PubMed:[20634287](#), PubMed:[31439799](#)). 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:[19276069](#), PubMed:[20634287](#), PubMed:[31439799](#)). During miRNA-mediated repression the complex also seems to act as translational repressor during translational initiation (PubMed:[20065043](#)). Additional complex functions may be a consequence of its influence on mRNA expression (PubMed:[19276069](#), PubMed:[23236473](#)). Associates with members of the BTG family such as TOB1 and BTG2 and is required for their anti-proliferative activity (PubMed:[19276069](#), PubMed:[23236473](#)).

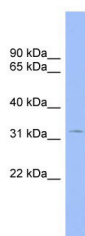
Cellular Location

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}

Background

This is a rabbit polyclonal antibody against CNOT7. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).

Images



CNOT7 antibody - middle region (AI10068) in Human Placenta cells using Western Blot
WB Suggested Anti-CNOT7 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Human Placenta

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.