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Anti-CNOT7 Antibody
Catalog # ABV11966

Specification

Anti-CNOT7 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9UIV1
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Isotype	**Rabbit IgG**
Calculated MW	**32745**

Anti-CNOT7 Antibody - Additional Information

Gene ID 29883

Positive Control	**WB: HeLa, HuvEc, DKD, mouse brain, rat brain lysates ; IHC: human ovarian cancer tissue**
Application & Usage	**WB; 1:500 – 1:2000, IH; 1:50 – 1:200**

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

Target/Specificity
CNOT7

Antibody Form
Liquid

Appearance
Colorless liquid

Handling
The antibody solution should be gently mixed before use

Reconstitution & Storage
-20°C

Background Descriptions

Precautions
Anti-CNOT7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CNOT7 Antibody - 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}

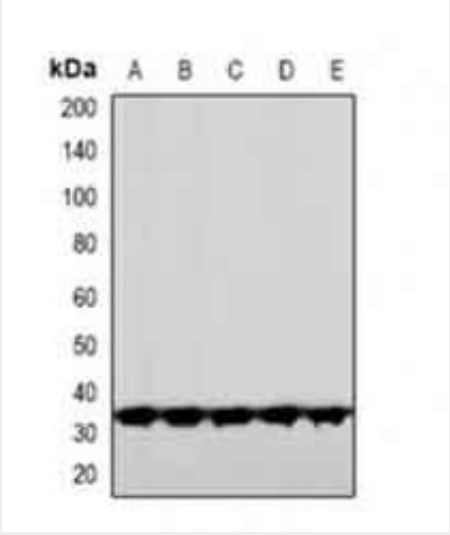
Anti-CNOT7 Antibody - Protocols

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

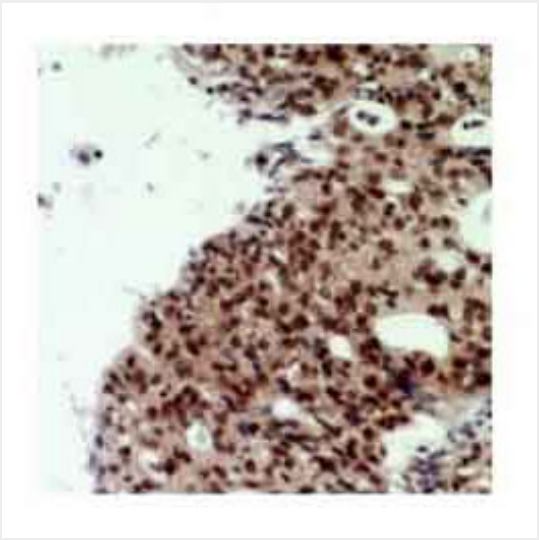
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CNOT7 Antibody - Images

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WB analysis of CNOT7 expression in HeLa (A); HuvEc (B); DKD (C); mouse brain (D); rat brain (E) whole cell lysates



Immunohistochemical analysis of CNOT7 staining In human ovarian cancer formalin fixed paraffin embedded tissue section.