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Anti-CNOT7 Antibody

Catalog # ABV11966

Product Information

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

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.

Protein Information

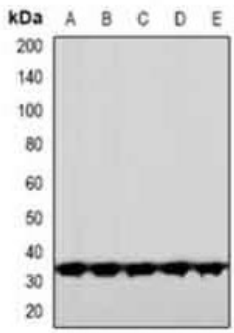
Name	CNOT7
Synonyms	CAF1
Function	Has 3'-5' poly(A) exoribonuclease activity for synthetic poly(A) RNA substrate (PubMed:19276069, PubMed:20634287, PubMed:31439799). Its function seems to be partially redundant with that of CNOT8 (PubMed:19605561). Catalytic component of the CCR4-NOT complex which is 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).

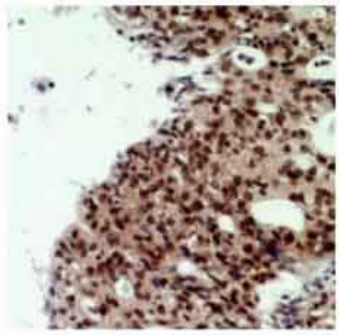
Cellular Location

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}

Images



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.

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