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Anti-CAND1 Antibody

Catalog Number: A03609

About CAND1

CAND1 is also known as TIP120A, and TATA-binding protein-interacting protein 120A. The SCF complex consists of the invariable components Skp1, Cul1, and Rbx1 as well as a variable F-box protein, and functions as an E3 ubiquitin ligase. E3 ubiquitin ligases regulate various physiological processes. CAND1 binds to Cul1 and potentially regulates the SCF complex. CAND1 physically associates with Cul1 in the nucleus and this interaction is mediated by a central region of Cul1 distinct from its binding sites for Skp1 and Rbx1. CAND1 selectively binds to unneddylated CUL1 and is dissociated by CUL1 neddylation. CAND1 forms a ternary complex with CUL1 and ROC1.

Overview

Product Name	Anti-CAND1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-CAND1 Antibody (Catalog # A03609). Tested in IP, WB applications. This antibody reacts with Human.
Application	ELISA, IP, IHC, WB
Clonality	Polyclonal
Formulation	0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q86VP6

Technical Details

Immunogen	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 11-24 of Human CAND1/TIP120A (N-terminal) coupled to KLH.
Predicted Reactive Species	Bovine, Canine, Equine, Guinea Pig, Pig, Rabbit
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Antiserum
Form	Liquid (sterile filtered)

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Concentration	85 mg/mL by Refractometry
Purification	This product is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human, rat and mouse CAND1/TIP120A. Cross-reactivity does occur with human, rat and mouse CAND2/TIP120B. Cross-reactivity with CAND1 from other sources is not known.
Suggested Dilutions	ELISA: 1:2,000 - 1:10,000 IHC: User optimized IP: User optimized WB: 1:500 - 1:1,000 This antibody reacts with human, rat, and mouse CAND1 tested by western blot and immunoprecipitation. The antibody immunoprecipitates in vitro translated protein and protein from cell lysates (using HeLa and NIH-3T3, and others). Coimmunoprecipitation of related proteins has not been tested. A 136.4 kDa band corresponding to human CAND1 is detected. Most cell lines expressing CAND1 can be used as a positive control. Researchers should determine optimal titers for other applications.

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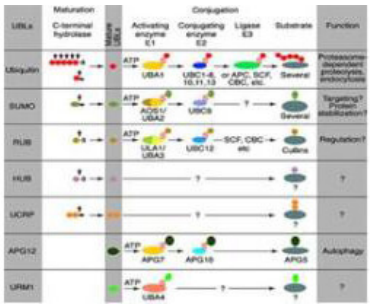
Anti-CAND1 Antibody (A03609) Images



Most modifiers mature by proteolytic processing from inactive precursors (a; amino acid). Arrowheads point to the cleavage sites. Ubiquitin is expressed either as polyubiquitin or as a fusion with ribosomal proteins. Conjugation requires activating (E1) and conjugating (E2) enzymes that form thiolesters (S) with the modifiers. Modification of cullins by RUB involves SCF(SKP1/cullin-1/F-box protein) /CBC(cullin-2/elongin B/elonginC) -like E3 enzymes that are also involved in ubiquitination. In contrast to ubiquitin, the UBLs do not seem to form multi-UBL chains. UCRP(ISG15) resembles two ubiquitin moieties linked head-to-tail. Whether HUB1 functions as a modifier is currently unclear. APG12 and URM1 are distinct from the other modifiers because they are unrelated in sequence to ubiquitin. Data contributed by S.Jentsch.

Anti-CAND1 Antibody

For Research Use Only. Not for use in diagnostic procedures.