

Datasheet for 100-401-A12**CAND2 Antibody****Overview**

Description:	Anti-CAND2 (C-terminal specific) (RABBIT) Antibody - 100-401-A12
Item No.:	100-401-A12
Size:	100 µL
Applications:	IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Anti-CAND2 antibody is ideal for western blotting, ELISA and IHC. CAND2 is also known as TIP120B, and TATA-binding protein-interacting protein 120B. While both CAND1 (TIP120A) and CAND2 (TIP120B) are TATA-binding proteins and form complexes with various nuclear proteins involved in the control of eukaryotic gene transcription, CAND2 (TIP120B) is expressed specifically in muscle and heart tissue. This is contrary to the ubiquitous expression of CAND1 (TIP120A). TIP120 homologs exist in various higher eukaryotes including <i>D. melanogaster</i> , <i>C. elegans</i> , and <i>A. thaliana</i> . TIP120B is 60% identical in amino acid sequence to TIP120A.
Synonyms:	rabbit anti-CAND2 Antibody, Cullin associated NEDD8 dissociated protein 2 antibody, p120 CAND2 antibody, TATA binding protein interacting protein 120B antibody, TBP interacting protein antibody, Tp120b antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	CAND2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 1130-1143 of Human CAND2/TIP120B (C-terminal) coupled to KLH.
Purity/Specificity:	This product is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human, rat and mouse CAND2/TIP120B. Cross reactivity does occur with human, rat and mouse CAND1/TIP120A. Cross reactivity with CAND2 from other sources is not known.
Relevant Links:	• NCBI - 112420977 • UniProtKB - O75155 • GeneID - 23066

Application Details

Tested Applications:	IP, WB
Application Note:	This antibody reacts with human, rat, and mouse CAND2 tested by western blot and immunoprecipitation. The antibody immunoprecipitates in vitro translated protein and protein from transfected cell lysates (using HeLa and NIH-3T3, and others). Coimmunoprecipitation of related proteins has not been tested. A 125.4 kDa band corresponding to human CAND2 is detected. CAND2 is specifically expressed in muscle and heart tissue. Researchers should determine optimal titers for other applications.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:10,000
IHC:	User Optimized
IP:	User Optimized
WB:	1:500 - 1:1,000

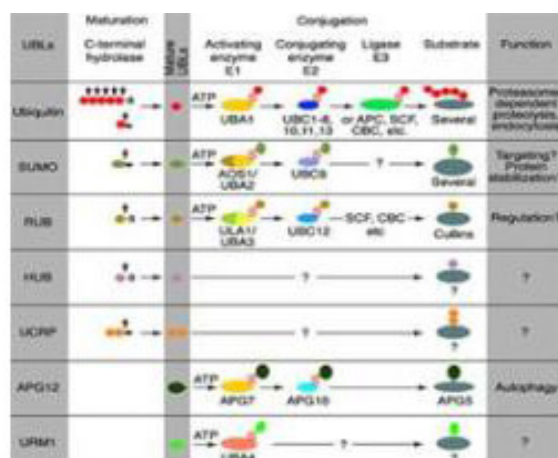
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	85 mg/mL by Refractometry
Buffer:	None
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store CAND2 antibody 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:	Expiration date is one (1) year from date of receipt.

Images



Pathway

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 thioesters (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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.