Datasheet for ABIN6243631

anti-COMMD1 antibody

1 Image

Go to Product page

Overview

Quantity:	50 µL
Target:	COMMD1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COMMD1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This COMMD1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 4--33 amino acids from human COMMD1.
Clone:	RB54338
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	COMMD1
Alternative Name:	COMMD1 (COMMD1 Products)
Background:	Proposed scaffold protein that is implicated in diverse physiological processes and whose function may be in part linked to its ability to regulate ubiquitination of specific cellular proteins. Can modulate activity of cullin-RING E3 ubiquitin ligase (CRL) complexes by displacing CAND1,

	in vitro promotes CRL E3 activiy and dissocoiates CAND1 from CUL1 and CUL2 (PubMed:< a href="http://www.uniprot.org/citations/21778237" target="_blank">21778237). Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity (PubMed:< a href="http://www.uniprot.org/citations/15799966" target="_blank">15799966, PubMed:< a href="http://www.uniprot.org/citations/17183367" target="_blank">17183367, PubMed:< a href="http://www.uniprot.org/citations/20048074" target="_blank">20048074). Involved in the regulation of membrane expression and ubiquitination of SLC12A2 (PubMed:< a href="http://www.uniprot.org/citations/23515529" target="_blank">23515529). Modulates Na(+) transport in epithelial cells by regulation of apical cell surface expression of amiloride-sensitive sodium channel (ENaC) subunits and by promoting their ubiquitination presumably involving NEDD4L. Promotes the localization of SCNN1D to recycling endosomes (PubMed:< a href="http://www.uniprot.org/citations/14645214" target="_blank">14645214, PubMed:< a href="http://www.uniprot.org/citations/20237237" target="_blank">20237237, PubMed:< a href="http://www.uniprot.org/citations/21741370" target="_blank">21741370). Promotes CFTR cell surface expression through regulation of its ubiquitination (PubMed:< a href="http://www.uniprot.org/citations/21483833" target="_blank">21483833). Down-regulates SOD1 activity by interfering with its homodimerization (PubMed:< a href="http://www.uniprot.org/citations/20595380" target="_blank">20595380). Plays a role in copper ion homeostasis. Involved in copper-dependent ATP7A trafficking between the trans-Golgi network and vesicles in the cell periphery, the function is proposed to depend on its association within the CCC complex and cooperation with the WASH complex on early endosomes (PubMed:< a href="http://www.uniprot.org/citations/25355947" target="_blank">25355947). Can bind one copper ion per monomer (PubMed:< a href="http://www.uniprot.org/citations/17309234" target="_blank">17309234). May function to facilitate biliary copper excretion within hepatocytes. Binds to phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) (PubMed:< a href="http://www.uniprot.org/citations/18940794" target="_blank">18940794). Involved in the regulation of HIF1A-mediated transcription, competes with ARNT/Hif-1-beta for binding to HIF1A resulting in decreased DNA binding and impaired transcriptional activation by HIF-1 (PubMed:< a href="http://www.uniprot.org/citations/20458141" target="_blank">20458141).
Molecular Weight:	21178
UniProt:	Q8N668
Pathways:	Transition Metal Ion Homeostasis

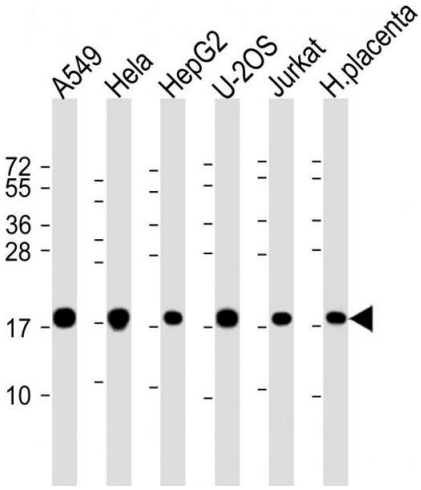
Application Details

Application Notes:	WB: 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Images



Western Blotting

Image 1. All lanes : Anti-COD1 Antibody (N-Term) at 1:2000 dilution Lane 1: A549 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: U-2OS whole cell lysate Lane 5: Jurkat whole cell lysate Lane 6: human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.