

COMMD1 Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21967a**Specification**

COMMD1 Antibody (N-Term) - Product Information

Application	WB,E
Primary Accession	Q8N668
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	21178

COMMD1 Antibody (N-Term) - Additional Information**Gene ID** 150684**Other Names**

COMM domain-containing protein 1, Protein Murr1, COMMD1, C2orf5, MURR1

Target/Specificity

This COMMD1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 4--33 amino acids from human COMMD1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

COMMD1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

COMMD1 Antibody (N-Term) - Protein Information**Name** COMMD1**Synonyms** C2orf5, MURR1**Function** 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 activity and dissociates CAND1 from CUL1 and CUL2 (PubMed:[21778237](#)). Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity (PubMed:[15799966](#), PubMed:[17183367](#), PubMed:[20048074](#)). Involved in the regulation of membrane expression and ubiquitination of SLC12A2 (PubMed:[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 SCN1D to recycling endosomes (PubMed:[14645214](#), PubMed:[20237237](#), PubMed:[21741370](#)). Promotes CFTR cell surface expression through regulation of its ubiquitination (PubMed:[21483833](#)). Down-regulates SOD1 activity by interfering with its homodimerization (PubMed:[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:[25355947](#)). Can bind one copper ion per monomer (PubMed:[17309234](#)). May function to facilitate biliary copper excretion within hepatocytes. Binds to phosphatidylinositol 4,5- biphosphate (PtdIns(4,5)P2) (PubMed:[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:[20458141](#)). Negatively regulates neuroblastoma G1/S phase cell cycle progression and cell proliferation by stimulating ubiquitination of NF-kappa-B subunit RELA and NF-kappa-B degradation in a FAM107A- and actin- dependent manner (PubMed:[28604741](#)).

Cellular Location

Nucleus. Cytoplasm Endosome membrane. Cytoplasmic vesicle. Early endosome. Recycling endosome Note=Shuttles between nucleus and cytosol. Detected in perinuclear foci that may be aggresomes containing misfolded, ubiquitinated proteins

Tissue Location

Ubiquitous. Highest expression in the liver, with lower expression in brain, lung, placenta, pancreas, small intestine, heart, skeletal muscle, kidney and placenta. Down-regulated in cancer tissues.

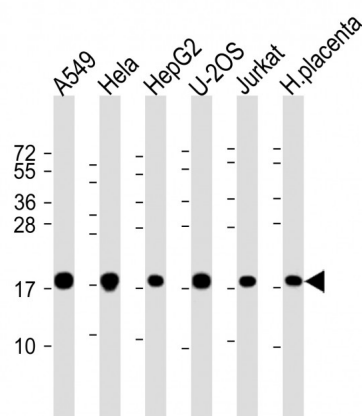
COMMD1 Antibody (N-Term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

COMMD1 Antibody (N-Term) - Images





All lanes : Anti-COMMD1 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.

COMMD1 Antibody (N-Term) - 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 activity and dissociates CAND1 from CUL1 and CUL2 (PubMed:21778237). Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity (PubMed:15799966, PubMed:17183367, PubMed:20048074). Involved in the regulation of membrane expression and ubiquitination of SLC12A2 (PubMed: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:14645214, PubMed:20237237, PubMed:21741370). Promotes CFTR cell surface expression through regulation of its ubiquitination (PubMed:21483833). Down-regulates SOD1 activity by interfering with its homodimerization (PubMed: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:25355947). Can bind one copper ion per monomer (PubMed:17309234). May function to facilitate biliary copper excretion within hepatocytes. Binds to phosphatidylinositol 4,5- bisphosphate (PtdIns(4,5)P2) (PubMed: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:20458141).

COMMD1 Antibody (N-Term) - References

Mueller T.,et al.J. Hepatol. 38:164-168(2003).
Stuehler B.,et al.J. Mol. Med. 82:629-634(2004).
Zhang Z.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).