

Rabbit COMMD1 Polyclonal Antibody | anti-COMMD1 antibody

COMMD1 Antibody

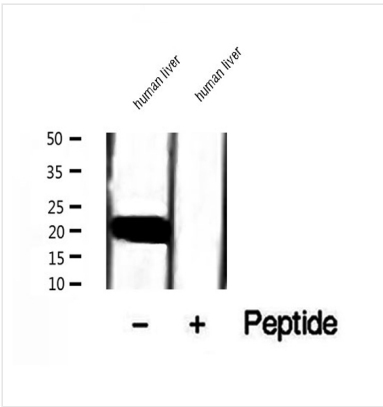
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322895	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

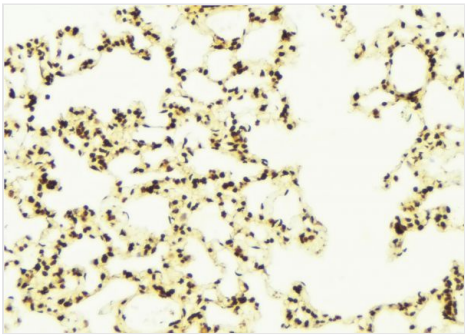
COMMD1; Polyclonal Antibody; COMMD1 Antibody; C2orf5; COMD1; COMD1_HUMAN; COMM domain-containing protein 1; Copper metabolism (Murr1) domain containing 1; Copper metabolism domain containing 1; Copper metabolism gene MURR1; Copper metabolism MURR1 domain-containing protein 1; MGC27155; MURR1; Protein Murr1; anti-COMMD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	COMMD1 antibody detects endogenous levels of COMMD1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	190
Applicable Applications for anti-COMMD1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human COMMD1.
Subcellular Location	Nucleus. Cytoplasm. Endosome Membrane. Cytoplasmic Vesicle. Early Endosome. Recycling Endosome. Shuttles between nucleus and cytosol. Detected in perinuclear foci that may be aggresomes containing misfolded, ubiquitinated proteins.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Zebrafish (86%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts of human liver tissue, using COMMD1 antibody.



IHC (Immunohistochemistry)
AAA322895 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-COMMD1 antibody	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 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). Subunit Structure: Monomer, homodimer. Can form heterodimers with other COMM domain-containing proteins but only certain combinations may exist in vivo (PubMed:23563313). Interacts (via COMM domain) with COMMD2, COMMD3, COMMD4, COMMD5, COMMD6, COMMD7, COMMD8 and COMMD10 (via COMM domain). Identified in a complex with an E3 ubiquitin ligase complex composed of TCEB1/elongin C, CUL2, SOCS1 and RBX1; in the complex interacts directly with SOCS1 and CUL2. Interacts directly with ATP7B (via the N-terminal region). Interacts with CCS, CDKN2A, RELA, REL, RELB, NFKB1/p105, NFKB2/p100, NFKBIB, SCNN1D, SCNN1B, CFTR, CLU, SGK1, AKT1, CUL1, CUL2, CUL3, CUL4A, CUL4B, CUL5, CUL7, HIF1A. Identified in a complex with NF-kappa-B. Interacts directly with SLC12A2. Interacts with CCDC22, CCDC93 and C16orf62; proposed to be a component of the CCC (COMMD/CCDC22/CCDC93) complex which contains at least COMMD1 (and possibly other COMM domain-containing proteins), CCDC22, CCDC93 and C16orf62 (PubMed:25355947). Interacts with ATP7A (PubMed:21667063). Post-translational Modifications: Acetylated by EP300 in a stimuli-specific manner; protecting it from XIAP-mediated proteasomal degradation and required for interaction with REIA in response to stress. Ubiquitinated; undergoes both 'Lys-63'-and 'Lys-48'-linked polyubiquitination. Ubiquitinated by XIAP, leading to its proteasomal degradation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22749079
NCBI GeneID	150684
NCBI Accession #	NP_689729.1

NCBI GenBank Nucleotide #	NM_152516.3
UniProt Accession #	Q8N668 ; Q96GS0 ; B4DFQ4
Molecular Weight	Observed: 21 kDa Predicted: 22 kDa
NCBI Official Full Name	COMM domain-containing protein 1 isoform 1
NCBI Official Synonym Full Names	copper metabolism domain containing 1
NCBI Official Symbol	COMMD1
NCBI Official Synonym Symbols	MURR1; C2orf5
NCBI Protein Information	COMM domain-containing protein 1
UniProt Protein Name	COMM domain-containing protein 1
UniProt Gene Name	COMMD1
UniProt Synonym Gene Names	C2orf5; MURR1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/commd1-antibody-immunohistochemistry-western-blot-elisa/322895>