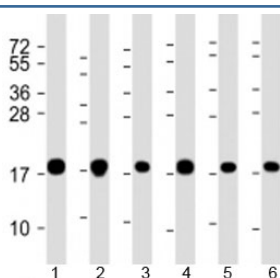


COMMD1 Antibody (F53882)

Catalog No.	Formulation	Size
F53882-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8N668
Applications	Western Blot : 1:1000-2000
Limitations	This COMMD1 antibody is available for research use only.



Western blot testing of human 1) A549, 2) HeLa, 3) HepG2, 4) U-2OS, 5) Jurkat and 6) placenta lysate with COMMD1 antibody at 1:2000. Predicted molecular weight: 21 kDa.

Description

COMM domain-containing protein 1 is a 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. Promotes ubiquitination of NF-kappa-B subunit RELA and its subsequent proteasomal degradation. Down-regulates NF-kappa-B activity. Involved in the regulation of membrane expression and ubiquitination of SLC12A2. 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. Promotes CFTR cell surface expression through regulation of its ubiquitination. Down-regulates SOD1 activity by interfering with its homodimerization. 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. Can bind one copper ion per monomer. May function to facilitate biliary copper excretion within hepatocytes. Binds to phosphatidylinositol 4,5- biphosphate (PtdIns(4,5)P₂). 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.

Application Notes

Titration of the COMMD1 antibody may be required due to differences in protocols and substrate sensitivity.

Immunogen

A portion of amino acids 4-33 from the human protein was used as the immunogen for the COMMD1 antibody.

Storage

Aliquot the COMMD1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.