

# Product Datasheet

## COMMD1 Antibody (2A12) - Azide and BSA Free H00150684-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00150684-M01**

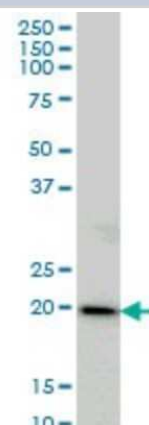
COMMD1 Antibody (2A12) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2A12
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Host	Mouse
Gene ID	150684
Gene Symbol	COMMD1
Species	Human
Specificity/Sensitivity	COMMD1 - copper metabolism (Murr1) domain containing 1
Immunogen	COMMD1 (AAH22046.1, 1 a.a. ~ 190 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MAAGELEGGKPLSGLLNALAQDTFHGYPGITEELLRSQLYPEVPPEEFRPFLAK MRGILKSIASADMDFNQLEAFLTAQTKKQGGITSDQAAVISKFVKSHKTKIRESL MNQSRWNSGLRGLSWRVDGKSQSRHSAQIHTPVAIIELELGKYGQGESEFLCLE FDEVKVNQILKTLSEVEESISTLISQPN
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunoprecipitation
Application Notes	Antibody reactive against cell lysate and recombinant protein for western blot. It has also been used for ELISA. Use in ICC/IF was reported in scientific literature (PMID: 18795889).

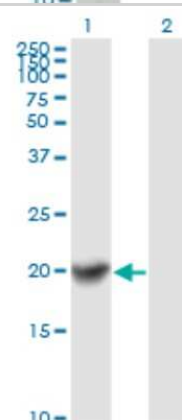


## Images

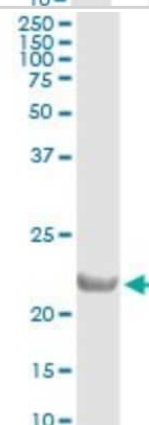
Western Blot: COMMD1 Antibody (2A12) [H00150684-M01] - COMMD1 monoclonal antibody (M01), clone 2A12 Analysis of COMMD1 expression in HeLa.



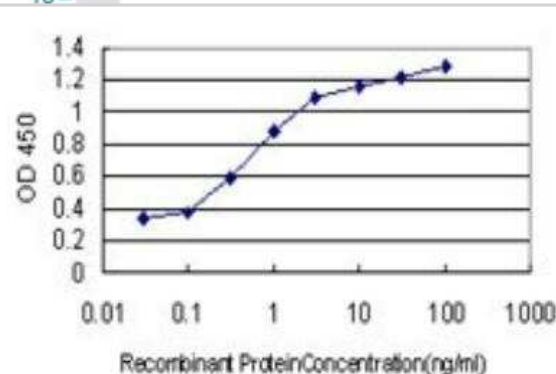
Western Blot: COMMD1 Antibody (2A12) [H00150684-M01] - Analysis of COMMD1 expression in transfected 293T cell line by COMMD1 monoclonal antibody (M01), clone 2A12. Lane 1: COMMD1 transfected lysate (21.2 kDa). Lane 2: Non-transfected lysate.



Immunoprecipitation: COMMD1 Antibody (2A12) [H00150684-M01] - Analysis of COMMD1 transfected lysate using anti-COMMD1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with COMMD1 MaxPab rabbit polyclonal antibody.



ELISA: COMMD1 Antibody (2A12) [H00150684-M01] - Detection limit for recombinant GST tagged COMMD1 is approximately 0.03 ng/ml as a capture antibody.



## Publications

- Hellen D, Julio M, Soledad A et al. The Anticancer Peptide CIGB-552 Exerts Anti-Inflammatory and Anti-Angiogenic Effects through COMMD1. *Molecules*. 2020-12-31 [PMID: 33396282]
- Maine GN, Mao X, Muller PA et al. COMMD1 expression is controlled by critical residues that determine XIAP binding. *Biochem J* 2009-01-15 [PMID: 18795889] (IP, WB)
- Drevillon L, Tanguy G, Hinzpeter A et al. COMMD1-Mediated Ubiquitination Regulates CFTR Trafficking. *PLoS One*. 2011-03-31 [PMID: 21483833]
- Schilling D, Bayer C, Li W et al. Radiosensitization of normoxic and hypoxic h1339 lung tumor cells by heat shock protein 90 inhibition is independent of hypoxia inducible factor-1alpha. *PLoS One*. 2012-02-07 [PMID: 22347438]
- O'Hara A, Simpson J, Morin P et al. P300-mediated acetylation of COMMD1 regulates its stability and the ubiquitination/nucleolar translocation of NF-kB/RelA. *J Cell Sci*. 2014-07-29 [PMID: 25074812]
- Weiss KH, Lozoya JC, Tuma S et al. Copper-Induced Translocation of the Wilson Disease Protein ATP7B Independent of Murr1/COMMD1 Rab7. *Am J Pathol*;173(6):1783-1794. 2008-12-01 [PMID: 18974300]
- de Bie P, van de Sluis B, Burstein E et al. Distinct Wilson's disease mutations in ATP7B are associated with enhanced binding to COMMD1 reduced stability of ATP7B. *Gastroenterology*;133(4):1316-26. 2007-10-01 [PMID: 17919502]
- Vonk WI, Wijmenga C, Berger R et al. Cu/Zn superoxide dismutase maturation and activity are regulated by COMMD1. *J Biol Chem*. 2010-07-01 [PMID: 20595380]
- Burkhead JL, Morgan CT, Shinde U et al. COMMD1 forms oligomeric complexes targeted to the endocytic membranes via specific interactions with PtdIns(4,5)p2. *J Biol Chem*;284(1):696-707. 2009-01-02 [PMID: 18940794]
- Huang Y, Wu M, Li HY. Tumor suppressor ARF promotes non-classic proteasomal independent polyubiquitination of COMMD1. *J Biol Chem*;283(17):11453-60. 2008-04-25 [PMID: 18305112]
- Maine GN, Mao X, Komarck CM et al. COMMD1 promotes the ubiquitination of NF-kappaB subunits through a cullin-containing ubiquitin ligase. *EMBO J* 2007-01-24 [PMID: 17183367]





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### **Products Related to H00150684-M01**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-50846-0.05mg	Recombinant Human COMMD1 His Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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