

COMMD1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant COMMD1.

Catalog # AT1586a

Product Information

Application	WB, IP, E
Primary Accession	Q8N668
Other Accession	BC022046
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2A12
Calculated MW	21178

Additional Information

Gene ID	150684
Other Names	COMM domain-containing protein 1, Protein Murr1, COMMD1, C2orf5, MURR1
Target/Specificity	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.
Dilution	WB~~1:500~1000 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	COMMD1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

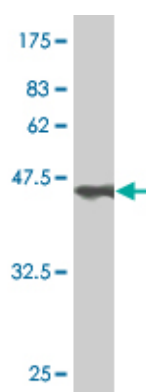
COMMD1 is a regulator of copper homeostasis, sodium uptake, and NF-kappa-B (see MIM 164011) signaling (de Bie et al., 2005 [PubMed 16267171]).

References

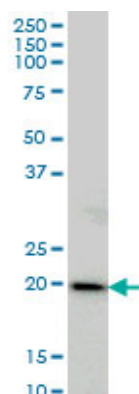
1. Radiosensitization of normoxic and hypoxic h1339 lung tumor cells by heat shock protein 90 inhibition is independent of hypoxia inducible factor-1?. Schilling D, Bayer C, Li W, Molls M, Vaupel P, Multhoff G. PLoS One. 2012;7(2):e31110. Epub 2012 Feb 7. 2. COMMD1-Mediated Ubiquitination Regulates CFTR Trafficking. Drevillon L, Tanguy G, Hinzpeter A, Arous N, de Becdelievre A, Aissat A, Tarze A, Goossens M,

Fanen P. PLoS One. 2011 Mar 31;6(3):e18334.3. Cu/Zn superoxide dismutase maturation and activity are regulated by COMMD1. Vonk WI, Wijmenga C, Berger R, van de Sluis B, Klomp LW. J Biol Chem. 2010 Jul 1. [Epub ahead of print].4. Copper-Induced Translocation of the Wilson Disease Protein ATP7B Independent of Murr1/COMMD1 and Rab7. Weiss KH, Lozoya JC, Tuma S, Gotthardt D, Reichert J, Eehalt R, Stremmel W, Fullekrug J. Am J Pathol. 2008 Dec;173(6):1783-1794. Epub 2008 Oct 30.5. COMMD1 forms oligomeric complexes targeted to the endocytic membranes via specific interactions with PtdIns(4,5)P₂. Burkhead JL, Morgan CT, Shinde U, Haddock G, Lutsenko S. J Biol Chem. 2009 Jan 2;284(1):696-707. Epub 2008 Oct 21.6. Tumor suppressor ARF promotes non-classic proteasomal independent polyubiquitination of COMMD1. Huang Y, Wu M, Li HY. J Biol Chem. 2008 Apr 25;283(17):11453-60. Epub 2008 Feb 27.7. Distinct Wilson's disease mutations in ATP7B are associated with enhanced binding to COMMD1 and reduced stability of ATP7B. de Bie P, van de Sluis B, Burstein E, van de Berghe PV, Muller P, Berger R, Gitlin JD, Wijmenga C, Klomp LW. Gastroenterology. 2007 Oct;133(4):1316-26. Epub 2007 Jul 25.8. COMMD1 promotes the ubiquitination of NF-kappaB subunits through a cullin-containing ubiquitin ligase. Maine GN, Mao X, Komarck CM, Burstein E. EMBO J. 2007 Jan 24;26(2):436-47. Epub 2006 Dec 21.

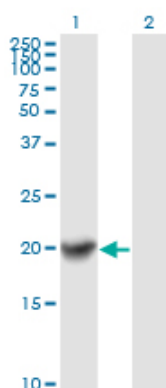
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (46.64 KDa) .



COMMD1 monoclonal antibody (M01), clone 2A12
Western Blot analysis of COMMD1 expression in HeLa (Cat # AT1586a)

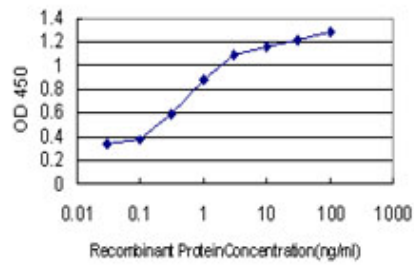
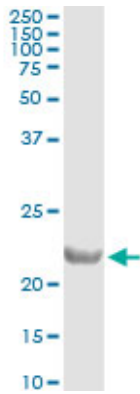


Western Blot analysis of COMMD1 expression in transfected 293T cell line by COMMD1 monoclonal antibody (M01), clone 2A12.

Lane 1: COMMD1 transfected lysate (21.2 KDa).
Lane 2: Non-transfected lysate.

Immunoprecipitation of COMMD1 transfected lysate using anti-COMMD1 monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with

COMMD1 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged COMMD1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.