10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COMMD7 Antibody

Catalog # ASC11721

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q86VX2
Other Accession	NP_444269, 151101369
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	22540
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	COMMD7 antibody can be used for detection of COMMD7 by Western blot at 1 - 2 g/ml. Antibody can also be used for Immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	149951
Other Names	COMM domain-containing protein 7, COMMD7, C20orf92
Target/Specificity	COMMD7; COMMD7 antibody is human, mouse and rat reactive. Multiple transcript variants encoding different isoforms have been found for COMMD7.
Reconstitution & Storage	COMMD7 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	COMMD7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COMMD7
Synonyms	C20orf92
Function	Scaffold protein in the commander complex that is essential for endosomal recycling of transmembrane cargos; the commander complex is composed of the CCC subcomplex and the retriever subcomplex (PubMed:37172566, PubMed:38459129). May modulate activity of cullin- RING E3 ubiquitin ligase (CRL) complexes (PubMed:21778237). Associates with the NF-kappa-B complex and suppresses its transcriptional activity (PubMed:15799966).
Cellular Location	Cytoplasmic vesicle

Tissue Location	Widely expressed with highest expression in lung.

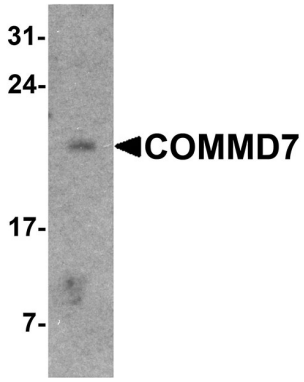
Background

COMMD7 (COMM domain-containing protein 7) plays a role in the regulation NF-kappaB (1). It associates with the NF-kB complex and suppresses its transcriptional activity (2). COMMD7 contains 1 COMM domain and widely expressed with highest expression in lung (3). COMMD7 is a newly identified gene overexpressed in hepatocellular carcinoma (HCC) (4). COMMD7 is associated with tumor invasion and poor prognosis by NF-kappaB signaling pathway (4).

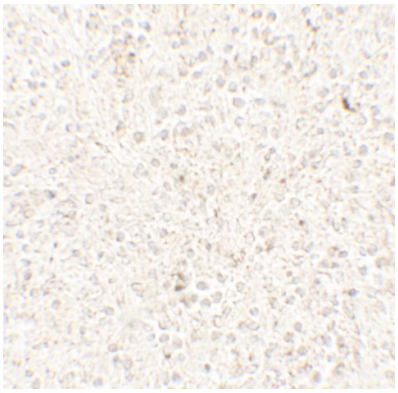
References

Maine GN and Burstein E. COMMD proteins and the control of the NF kappa B pathway. Cell Cycle 2007; 6:672-6.
Burstein E, Hoberg JE, Wilkinson AS, et al. COMMD proteins, a novel family of structural and functional homologs of MURR1. J. Biol. Chem. 2005; 280:22222-32.
Narindrasorasak S, Kulkarni P, Deschamps P, et al. Characterization and copper binding properties of human COMMD1 (MURR1). Biochemistry 2007; 46:3116-28.
Zheng L, Liang P, Li J, et al. ShRNA-targeted COMMD7 suppresses hepatocellular carcinoma growth. PLoS One 2012; 7:e45412.

Images

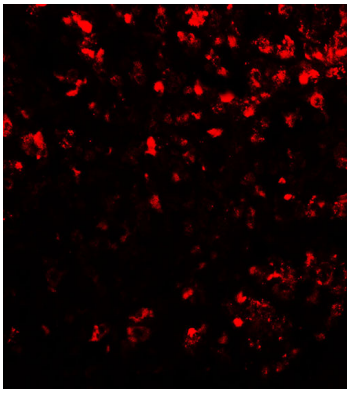


Western blot analysis of COMMD7 in mouse spleen tissue lysate with COMMD7 antibody at 1 µg/ml.



Immunohistochemistry of COMMD7 in human spleen tissue with COMMD7 antibody at 5 µg/mL.

Immunofluorescence of COMMD7 in human spleen tissue with COMMD7 antibody at 20 µg/mL.



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