



COMMD9 (E-14): sc-107502

BACKGROUND

The COMMD family represents a group of evolutionary conserved proteins that share a common COMM domain at their extreme C-terminus, which provides an interface for protein-protein interactions. COMMD9 (COMM domain containing 9) is a 198 amino acid ubiquitously expressed protein that contains one COMM domain and may be involved in signaling events throughout the cell. The gene encoding COMMD9 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

- Gawin, B., Niederführ, A., Schumacher, N., Hummerich, H., Little, P.F. and Gessler, M. 1999. A 7.5 Mb sequence-ready PAC contig and gene expression map of human chromosome 11p13-p14.1. *Genome Res.* 9: 1074-1086.
- Burstein, E., Hoberg, J.E., Wilkinson, A.S., Rumble, J.M., Csomos, R.A., Komarck, C.M., Maine, G.N., Wilkinson, J.C., Mayo, M.W. and Duckett, C.S. 2005. COMMD proteins, a novel family of structural and functional homologs of MURR1. *J. Biol. Chem.* 280: 22222-22232.
- de Bie, P., van de Sluis, B., Burstein, E., Duran, K.J., Berger, R., Duckett, C.S., Wijmenga, C. and Klomp, L.W. 2006. Characterization of COMMD protein-protein interactions in NF κ B signalling. *Biochem. J.* 398: 63-71.
- Maine, G.N. and Burstein, E. 2007. COMMD proteins and the control of the NF κ B pathway. *Cell Cycle* 6: 672-676.
- Maine, G.N. and Burstein, E. 2007. COMMD proteins: COMMing to the scene. *Cell. Mol. Life Sci.* 64: 1997-2005.
- Online Mendelian Inheritance in Man, OMIM™. 2009. Johns Hopkins University, Baltimore, MD. MIM Number: 612299. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: COMMD9 (human) mapping to 11p13; Commd9 (mouse) mapping to 2 E2.

SOURCE

COMMD9 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of COMMD9 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107502 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

COMMD9 (E-14) is recommended for detection of COMMD9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for COMMD9 siRNA (h): sc-96510, COMMD9 siRNA (m): sc-142489, COMMD9 shRNA Plasmid (h): sc-96510-SH, COMMD9 shRNA Plasmid (m): sc-142489-SH, COMMD9 shRNA (h) Lentiviral Particles: sc-96510-V and COMMD9 shRNA (m) Lentiviral Particles: sc-142489-V.

Molecular Weight of COMMD9: 22 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.