

COMMD7 (N-19): sc-85496

BACKGROUND

COMMD family members are a group of evolutionary conserved proteins that share a common COMM domain at the extreme C-terminus, which provides an interface for protein-protein interactions. Of the ten family members, the role of COMMD1, also known as MURR1, is best characterized, functioning to inhibit TNF-induced NFκB p50 and to facilitate biliary copper excretion within hepatocytes. Most, if not all, COMMD proteins have been found to play a role in the regulation NFκB and, despite their similarities, seem to function in unique and non-redundant pathways. COMMD proteins may also play a role in the function of epithelial sodium channels, cell proliferation, copper homeostasis and in the regulation of the ubiquitin pathway. With highest expression in lung, COMMD7 (COMM domain-containing protein 7) is a 200 amino acid protein that binds COMMD1 via its COMM domain. By interacting with the NFκB complex, COMMD7 suppresses the transcriptional activity of NFκB.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COMMD7 (human) mapping to 20q11.21; Commd7 (mouse) mapping to 2 H1.

SOURCE

COMMD7 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of COMMD7 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-85496 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

COMMD7 (N-19) is recommended for detection of COMMD7 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).

COMMD7 (N-19) is also recommended for detection of COMMD7 in additional species, including canine and bovine.

Suitable for use as control antibody for COMMD7 siRNA (h): sc-72967, COMMD7 siRNA (m): sc-142488, COMMD7 shRNA Plasmid (h): sc-72967-SH, COMMD7 shRNA Plasmid (m): sc-142488-SH, COMMD7 shRNA (h) Lentiviral Particles: sc-72967-V and COMMD7 shRNA (m) Lentiviral Particles: sc-142488-V.

Molecular Weight of COMMD7: 23 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.

STORAGE

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

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.