

COMMD6 (A-12): sc-84238

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 NF κ B 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 of NF κ B 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. As a member of the COMMD family, COMMD6 (COMM domain-containing protein 6) is an 85 amino acid protein that interacts directly with COMMD1. With expression in lung, skeletal muscle, liver, kidney, pancreas, small intestine, placenta, brain and heart, COMMD6 is localized to the cytoplasm and the nucleus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COMMD6 (human) mapping to 13q22.2; Commd6 (mouse) mapping to 14 E2.3.

SOURCE

COMMD6 (A-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of COMMD6 of human origin.

PRODUCT

Each vial contains 100 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-84238 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

COMMD6 (A-12) is recommended for detection of COMMD6 of mouse 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).

COMMD6 (A-12) is also recommended for detection of COMMD6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for COMMD6 siRNA (h): sc-72966, COMMD6 siRNA (m): sc-142487, COMMD6 shRNA Plasmid (h): sc-72966-SH, COMMD6 shRNA Plasmid (m): sc-142487-SH, COMMD6 shRNA (h) Lentiviral Particles: sc-72966-V and COMMD6 shRNA (m) Lentiviral Particles: sc-142487-V.

Molecular Weight of COMMD6: 8 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.