

CapZIP (C-17): sc-160199

BACKGROUND

CapZIP (capz-interacting protein), also known as RCSD1 (RCSD domain-containing protein 1) or MK2S4, is a 416 amino acid protein that contains one RCSD domain and exists as two alternatively spliced isoforms. Expressed at high levels in skeletal muscle and present at lower levels in spleen, thymus and cardiac muscle, CapZIP interacts with CapZ- β and CapZ- α and, during times of cellular stress, is thought to regulate the F-Actin-dependent remodeling of the Actin filament assembly. The gene encoding CapZIP maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinsons Disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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3. Weise, A., Starke, H., Mrasek, K., Claussen, U. and Liehr, T. 2005. New insights into the evolution of chromosome 1. *Cytogenet. Genome Res.* 108: 217-222.
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CHROMOSOMAL LOCATION

Genetic locus: RCSD1 (human) mapping to 1q24.2.

SOURCE

CapZIP (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CapZIP 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-160199 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

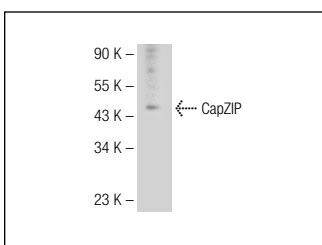
CapZIP (C-17) is recommended for detection of CapZIP of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CapZIP siRNA (h): sc-88159, CapZIP shRNA Plasmid (h): sc-88159-SH and CapZIP shRNA (h) Lentiviral Particles: sc-88159-V.

Molecular Weight (predicted) of CapZIP: 45 kDa.

Positive Controls: LADMAC whole cell lysate.

DATA



CapZIP (C-17): sc-160199. Western blot analysis of CapZIP expression in LADMAC whole cell lysate.

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.



Try **CapZIP (3F6): sc-517059**, our highly recommended monoclonal alternative to CapZIP (C-17).