



# myomegalin (h2): 293T Lysate: sc-372427

## BACKGROUND

Myomegalin, also known as PDE4DIP (phosphodiesterase 4D-interacting protein), CMYA2 (cardiomyopathy-associated protein 2) or MMGL, is a 2,346 amino acid protein that contains one NBPF domain and localizes to the nucleus, cytoplasm, centrosome and Golgi apparatus. Expressed at high levels in fetal and adult heart and at lower levels in brain and placenta, myomegalin is thought to function as an anchoring protein that sequesters members of the cAMP-dependent pathway to the Golgi and to centrosomes, thereby mediating cAMP pathway dynamics. Translocations in the gene that encodes myomegalin are associated with myeloproliferative disorders (MBDs), a group of diseases caused by an overproduction of blood cells. Myomegalin exists as 12 isoforms due to alternative splicing events.

## REFERENCES

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5. Bond, J. and Woods, C.G. 2006. Cytoskeletal genes regulating brain size. *Curr. Opin. Cell Biol.* 18: 95-101.
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## CHROMOSOMAL LOCATION

Genetic locus: PDE4DIP (human) mapping to 1q21.1.

## PRODUCT

myomegalin (h2): 293T Lysate represents a lysate of human myomegalin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## APPLICATIONS

myomegalin (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive myomegalin antibodies. Recommended use: 10-20 µl per lane.

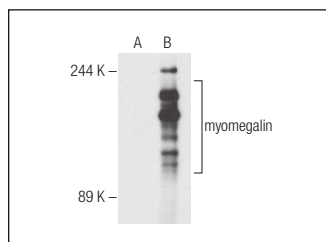
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

myomegalin (S-17): sc-100921 is recommended as a positive control antibody for Western Blot analysis of enhanced human myomegalin expression in myomegalin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



myomegalin (S-17): sc-100921. Western blot analysis of myomegalin expression in non-transfected: sc-117752 (A) and human myomegalin transfected: sc-372427 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.