



# MSY2 (h): 293T Lysate: sc-115033

## BACKGROUND

Contrin (MSY2 in mouse) and YB-2 (MSY3/4 in mouse) belong to the Y-box family of multifunctional proteins that regulate both transcription and translation. Y-box proteins interact with a wide variety of nucleic acid structures to act as transcription factors and mRNA masking proteins. The modular structure of Y-box proteins includes a highly conserved N-terminal cold-shock domain (CSD, equivalent to the bacterial cold-shock proteins) and four basic C-terminal domains containing arginine clusters and aromatic residues. MSY2 (Contrin) is expressed in testis and ovary, where it may repress translation of parental mRNA. The gene encoding human Contrin maps to chromosome 17p13.1. MSY3/4 (YB-2) is also known as DNA-binding protein A and is highly expressed in testis, heart and muscle. Contrin and YB-2 bind to the consensus sequence 5'-UCCAUCA-3' contained in the Y-box element.

## REFERENCES

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## 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.

## CHROMOSOMAL LOCATION

Genetic locus: YBX2 (human) mapping to 17p13.1.

## PRODUCT

MSY2 (h): 293T Lysate represents a lysate of human MSY2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

MSY2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive MSY2 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.

## RESEARCH USE

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

## PROTOCOLS

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