LYSMD1 (h): 293T Lysate: sc-117177



The Power to Question

BACKGROUND

LYSMD1 (LysM and putative peptidoglycan-binding domain-containing protein 1), also known as SB145, is a 227 amino acid protein that contains one LysM repeat and exists as 2 alternatively spliced isoforms. The gene encoding LYSMD1 maps to human chromosome 1, which spans about 260 million base pairs and comprises 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. 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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- Blackwood, D.H., et al. 2001. Schizophrenia and affective disorders—cosegregation with a translocation at chromosome 1q42 that directly disrupts brain-expressed genes: clinical and P300 findings in a family. Am. J. Hum. Genet. 69: 428-433.
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- Gregory, S.G., et al. 2006. The DNA sequence and biological annotation of human chromosome 1. Nature 441: 315-321.
- 6. Hennah, W., et al. 2006. Genes and schizophrenia: beyond schizophrenia: the role of DISC1 in major mental illness. Schizophr. Bull. 32: 409-416.
- Marzin, Y., et al. 2006. Chromosome 1 abnormalities in multiple myeloma. Anticancer Res. 26: 953-959.

CHROMOSOMAL LOCATION

Genetic locus: LYSMD1 (human) mapping to 1q21.3.

PRODUCT

LYSMD1 (h): 293T Lysate represents a lysate of human LYSMD1 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

LYSMD1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive LYSMD1 antibodies. Recommended use: 10-20 μ l per lane

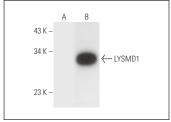
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

LYSMD1 (G-3): sc-514030 is recommended as a positive control antibody for Western Blot analysis of enhanced human LYSMD1 expression in LYSMD1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

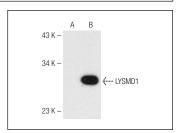
RECOMMENDED SUPPORT REAGENTS

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

DATA



LYSMD1 (G-3): sc-514030. Western blot analysis of LYSMD1 expression in non-transfected: sc-117752 (A) and human LYSMD1 transfected: sc-117177 (B) 293T whole cell Ivsates.



LYSMD1 (N-12): sc-240643. Western blot analysis of LYSMD1 expression in non-transfected: sc-117752 (A) and human LYSMD1 transfected: sc-117177 (B) 293T whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.