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ASH2L (m): 293T Lysate: sc-118586

BACKGROUND

The human ASH2L gene encodes a 628 amino acid protein known as ASH2L1, or isoform 1, which contains a nuclear localization signal and PHD finger motif, suggesting that the gene product functions as a transcription regulator. Alternative splicing results in a shorter isoform 2, designated ASH2L2, which is missing the first 94 amino acid residues found in ASH2L1. Human ASH2L proteins are 60% homologous to *Drosophila* ash2, which positively regulates expression of certain genes in early development and contain similar, but not identical, domains, including a zinc finger motif. ASH2L is highly expressed in fetal liver, testis and leukemia cell lines with erythroid and megakaryocytic potential, such as K-562, Hel and Dami. Differentiation inducers (e.g. phorbol ester and hemin) cause different expression patterns in these cells lines, suggesting that ASH2L plays a role in hematopoiesis and is associated with particular types of leukemia.

REFERENCES

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2. Wang, J., et al. 2001. ASH2L: alternative splicing and downregulation during induced megakaryocytic differentiation of multipotential leukemia cell lines. *J. Mol. Med.* 79: 399-405.
3. Amoros, M., et al. 2002. The ash2 gene is involved in *Drosophila* wing development. *Int. J. Dev. Biol.* 46: 321-324.
4. Wysocka, J., et al. 2003. Human Sin3 deacetylase and trithorax-related Set1/Ash2 histone H3-K4 methyltransferase are tethered together selectively by the cell-proliferation factor HCF-1. *Genes Dev.* 17: 896-911.
5. Beltran, S., et al. 2003. Transcriptional network controlled by the trithorax-group gene ash2 in *Drosophila melanogaster*. *Proc. Natl. Acad. Sci. USA* 100: 3293-3298.
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CHROMOSOMAL LOCATION

Genetic locus: Ash2l (mouse) mapping to 8 A2.

PRODUCT

ASH2L (m): 293T Lysate represents a lysate of mouse ASH2L transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ASH2L (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ASH2L 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.

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.

PROTOCOLS

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