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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# ABCE1 (m): 293T Lysate: sc-118158

## BACKGROUND

ABCE1 (RNS4I, RLI) is a mediator of the 2-5A/RNase L pathway. The 2-5A/RNase L system is considered an essential pathway of interferon (IFN) action. In the pathway, IFN stimulation activates 2-5A synthetases which convert ATP into a set of atypical oligomers known as 2-5A. These oligomers in turn activate RNase L (RNS4), which leads to inhibition of protein synthesis by cleaving mRNAs at the 3' side of UpNp sequences. This inhibition necessitates the association of ABCE1 with RNase L and is dependent on the ratio between the two proteins. The 2-5A/RNase L system could also play a more general physiological role, for instance, in the regulation of RNA stability in mammalian cells.

## REFERENCES

1. Iida, A., Saito, S., Sekine, A., Mishima, C., Kitamura, Y., Kondo, K., Harigae, S., Osawa, S. and Nakamura, Y. 2002. Catalog of 605 single-nucleotide polymorphisms (SNPs) among 13 genes encoding human ATP-binding cassette transporters: ABCA4, ABCA7, ABCA8, ABCD1, ABCD3, ABCD4, ABCE1, ABCF1, ABCG1, ABCG2, ABCG4, ABCG5 and ABCG8. *J. Hum. Genet.* 47: 285-310.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 601213. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Shichijo, S., Ishihara, Y., Azuma, K., Komatsu, N., Higashimoto, N., Ito, M., Nakamura, T., Ueno, T., Harada, M. and Itoh, K. 2005. ABCE1, a member of ATP-binding cassette transporter gene, encodes peptides capable of inducing HLA-A2-restricted and tumor-reactive cytotoxic T lymphocytes in colon cancer patients. *Oncol. Rep.* 13: 907-913.
4. Lingappa, J.R., Doohar, J.E., Newman, M.A., Kiser, P.K. and Klein, K.C. 2006. Basis of HIV-1 Gag with ABCE1 (HP68), a cellular protein important for HIV-1 capsid assembly. *J. Biol. Chem.* 281: 3773-3784.
5. Chen, Z.Q., Dong, J., Ishimura, A., Daar, I., Hinnebusch, A.G. and Dean, M. 2006. The essential vertebrate ABCE1 protein interacts with eukaryotic initiation factors. *J. Biol. Chem.* 281: 7452-7457.

## CHROMOSOMAL LOCATION

Genetic locus: Abce1 (mouse) mapping to 8 C2.

## PRODUCT

ABCE1 (m): 293T Lysate represents a lysate of mouse ABCE1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

ABCE1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ABCE1 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](http://www.scbt.com) for detailed protocols and support products.