SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

MECL-1 (m): 293T Lysate: sc-121580

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The 20S proteasome is a protease complex that is responsible for cytosolic protein degradation and generation of peptide ligands for major histocompatabilty complex (MHC) class I molecules, either in their final form or in the form of amino-terminally extended precursors. Upon IFN-γ stimulation of cells, three constitutively expressed subunits of the 20S proteasome are replaced by inducible subunits LMP2 (low-molecular mass polypeptide 2), LMP7 and MECL-1 (multicatalytic endopeptidase complex-like-1, LMP10). LMP2, LMP7 and MECL-1 subunits form immunoproteasomes, which are associated with more efficient class I antigen processing and presentation. Independent assortment of LMP-2, LMP-7, and MECL-1 into different proteasome complexes can lead to 36 unique proteasome subsets, which may mediate differences in the cleavage specificities/cleavage motifs of proteins subject to constitutive- and immuno-proteasomes.

REFERENCES

1. Nandi, D., Jiang, H. and Monaco, J.J. 1996. Identification of MECL-1 (LMP-10) as the third IFN-γ inducible proteasome subunit. J. Immunol. 156: 2361-2364.
2. Frisan, T., Levitsky, V., Polack, A. and Masucci, M.G. 1998. Phenotype-dependent differences in proteasome subunit composition and cleavage specificity in B cell lines. J. Immunol. 160: 3281-3289.
3. Sijts, A.J., Ruppert, T., Rehermann, B., Schmidt, M., Koszinowski, U. and Kloetzel, P.M. 2000. Efficient generation of a hepatitis B virus cytotoxic T lymphocyte epitope requires the structural features of immunoproteasomes. J. Exp. Med. 191: 503-514.
4. Schwarz, K., van Den Broek, M., Kostka, S., Kraft, R., Soza, A., Schmidtke, G., Kloetzel, P.M. and Groettrup, M. 2000. Overexpression of the proteasome subunits LMP2, LMP7, and MECL-1, but not PA28 α/β, enhances the presentation of an immunodominant lymphocytic choriomeningitis virus T cell epitope. J. Immunol. 165: 768-778.
5. Toes, R.E., Nussbaum, A.K., Degermann, S., Schirle, M., Emmerich, N.P., Kraft, M., Laplace, C., Zwinderman, A., Dick, T.P., Muller, J., Schonfisch, B., Schmid, C., Fehling, H.J., Stevanovic, S., Rammensee, H.G. and Schild, H. 2001. Discrete cleavage motifs of constitutive and immunoproteasomes revealed by quantitative analysis of cleavage products. J. Exp. Med. 194: 1-12.

CHROMOSOMAL LOCATION

Genetic locus: Psmb10 (mouse) mapping to 8 D3.

PRODUCT

MECL-1 (m): 293T Lysate represents a lysate of mouse MECL-1 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.

APPLICATIONS

MECL-1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive MECL-1 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 for detailed protocols and support products.