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Produktinformation

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

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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.

PrP (h): 293T Lysate: sc-159709

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Prion diseases, or transmissible spongiform encephalopathies (TSEs), are manifested as genetic, infectious or sporadic, lethal neurodegenerative disorders involving alterations of the prion protein (PrP). Characteristic of prion diseases, cellular PrP (PrPc) is converted to the disease form, PrPSc, through alterations in the protein folding conformations. PrPc is constitutively expressed in normal adult brain and is sensitive to proteinase K digestion, while the altered PrPSc conformation is resistant to proteases, resulting in a distinct molecular mass after PK treatment. Consistent with the transient infection process of prion diseases, incubation of PrPc with PrPSc both *in vitro* and *in vivo* produces PrPc that is resistant to protease degradation. Infectious PrPSc is found at high levels in the brains of animals affected by TSEs, including scrapie in sheep, BSE in cattle and Cruetzfeldt-Jakob disease in humans.

REFERENCES

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2. Bessen, R.A., Kocisko, D.A., Raymond, G.J., Nandan, S., Lansbury, P.T. and Caughey, B. 1995. Non-genetic propagation of strain-specific properties of scrapie prion protein. Nature 375: 698-700.
3. Weiss, S., Rieger, R., Edenhofer, F., Fisch, E. and Winnacker, E.L. 1996. Recombinant prion protein rPrP27-30 from Syrian golden hamster reveals proteinase K sensitivity. Biochem. Biophys. Res. Commun. 219: 173-179.
4. Prusiner, S.B. 1998. Prions. Proc. Natl. Acad. Sci. USA 95: 13363-13383.
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6. Caughey, B., Raymond, G.J. and Bessen, R.A. 1998. Strain-dependent differences in β-sheet conformations of abnormal prion protein. J. Biol. Chem. 273: 32230-32235.

CHROMOSOMAL LOCATION

Genetic locus: PRNP (human) mapping to 20p13.

PRODUCT

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

APPLICATIONS

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