



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](https://www.linkedin.com/company/szaboscandic) 



κ -casein (m): 293T Lysate: sc-119007

BACKGROUND

Milk proteins are crucial for the development of all newborn mammals, and caseins constitute the major proteins in mammalian milk. β - and κ -casein are the only caseins present in human milk. The β -casein/ κ -casein ratio is higher in colostrum than in transitional and mature milk, and is related to a better digestibility of colostrum casein micelles by the neonate during the first days of life. κ -casein stabilizes the micellar structure of casein in mammalian milk. κ -casein gene is hypermethylated at the HpaII-MspI sites in the mammary gland of virgin, ten-day pregnant and nonlactating females, but not in ten-day lactating females. κ -casein expression inversely correlates to the extent of methylation of the κ -casein gene, except in the Prolactin-stimulated virgin gland. In the presence of the lactogenic hormones, Insulin, Aldosterone, Corticosterone and PRL, epidermal growth factor inhibits the induction of κ -casein mRNA in both mouse and rat mammary glands.

REFERENCES

1. Nakhasi, H.L., Grantham, F.H. and Gullino, P.M. 1984. Expression of κ -casein in normal and neoplastic rat mammary gland is under the control of Prolactin. *J. Biol. Chem.* 259: 14894-14898.
2. Thompson, M.D. and Nakhasi, H.L. 1985. Methylation and expression of rat κ -casein gene in normal and neoplastic rat mammary gland. *Cancer Res.* 45: 1291-1295.
3. Vonderhaar, B.K. and Nakhasi, H.L. 1986. Bifunctional activity of epidermal growth factor on α - and κ -casein gene expression in rodent mammary glands *in vitro*. *Endocrinology* 119: 1178-1184.
4. Menon, R.S., Chang, Y.F., Jeffers, K.F., Jones, C. and Ham, R.G. 1992. Regional localization of human β -casein gene (CSN2) to 4pter-q21. *Genomics* 13: 25-26.
5. Cuilliere, M.L., Tregoeat, V., Bene, M.C., Faure, G. and Montagne, P. 1999. Changes in the κ -casein and β -casein concentrations in human milk during lactation. *J. Clin. Lab. Anal.* 13: 213-218.
6. Iametti, B.S., Tedeschi, G., Oungre, E. and Bonomi, F. 2001. Primary structure of κ -casein isolated from mares' milk. *J. Dairy Res.* 68: 53-61.

CHROMOSOMAL LOCATION

Genetic locus: Csn3 (mouse) mapping to 5 E1.

PRODUCT

κ -casein (m): 293T Lysate represents a lysate of mouse κ -casein transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

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

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.