



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) 

EF-1 α 1 (h10): 293T Lysate: sc-117345

BACKGROUND

The elongation factor-1 complex is composed of two subunits, EF-1 α 1 (elongation factor 1- α 1) and EF-1 α 2 (elongation factor 1- α 2), and is responsible for the delivery of aminoacyl tRNAs to the ribosome. EF-1 α 1 is expressed predominantly in brain, placenta, lung, liver, kidney and pancreas, while EF-1 α 2 is highly expressed in heart, brain and skeletal muscle. Both EF-1 α 1 and α 2 localize to the nucleus and belong to the GTP-binding elongation factor family. The gene encoding EF-1 α 2, which maps to human chromosome 20q13.3, may play a role in the development of ovarian cancer, while the EF-1 α 1 gene, mapping to chromosome 6q13, is commonly present as an autoantigen in patients with Felty syndrome. Felty syndrome is a disorder characterized by rheumatoid arthritis, a swollen spleen, decreased white blood cell count, and increased susceptibility to infection.

REFERENCES

1. Nyborg, J. 1998. Possible evolution of factors involved in protein biosynthesis. *Acta Biochim. Pol.* 45: 883-894.
2. Agrawal, R.K., Penczek, P., Grassucci, R.A. and Frank, J. 1998. Visualization of elongation factor G on the *Escherichia coli* 70S ribosome: the mechanism of translocation. *Proc. Natl. Acad. Sci. USA* 95: 6134-6138.
3. Kraal, B., Lippmann, C. and Kleantous, C. 1999. Translational regulation by modifications of the elongation factor Tu. *Folia Microbiol.* 44: 131-141.
4. Martemyanov, K.A. and Gudkov, A.T. 2000. Domain III of elongation factor G from *Thermus thermophilus* is essential for induction of GTP hydrolysis on the ribosome. *J. Biol. Chem.* 275: 35820-35824.
5. Rodnina, M.V., Stark, H., Savelsbergh, A., Wieden, H.J., Mohr, D., Matassova, N.B., Peske, F., Daviter, T., Gualerzi, C.O. and Wintermeyer, W. 2000. GTPases mechanisms and functions of translation factors on the ribosome. *Biol. Chem.* 381: 377-387.

CHROMOSOMAL LOCATION

Genetic locus: EEF1A1 (human) mapping to 6q13.

PRODUCT

EF-1 α 1 (h10): 293T Lysate represents a lysate of human EF-1 α 1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

EF-1 α 1 (h10): 293T Lysate is suitable as a Western Blotting positive control for human reactive EF-1 α 1 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 $^{\circ}$ 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.