



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) 

p15 (h): 293T Lysate: sc-129373

BACKGROUND

The normal progression of cells through the cell cycle is under the control of the cyclin dependent protein kinases Cdk4 and Cdk6 which are subject to inhibition by the mitotic inhibitory protein, p16. An isolated member of the p16 family has been designated p15. p15 expression is upregulated approximately 30-fold in TGF β -treated human keratinocytes, suggesting that p15 may act as an effector of TGF β -mediated cell cycle arrest. The gene encoding p15 has been mapped to chromosome 9p21.3 at a position adjacent to the p16 gene at a site of frequent chromosomal abnormality in human tumors. It has been suggested that p15 may function as an effector of TGF β -mediated cell cycle arrest through inhibition of Cdk4 and Cdk6 kinases.

REFERENCES

- Hannon, G.J., et al. 1994. p15^{INK4b} is a potential effector of TGF β -induced cell cycle arrest. *Nature* 371: 257-261.
- Kamb, A., et al. 1994. A cell cycle regulator potentially involved in genesis of many tumor types. *Science* 264: 436-440.
- Reynisdóttir, I., et al. 1997. The subcellular locations of p15^{INK4b} interactions with Cdk4 and Cdk2. *Genes Dev.* 11: 492-503.
- Chen, H., et al. 2002. Hypermethylation of the p15^{INK4b} gene in acute leukemia and myelodysplastic syndromes. *Chin. Med. J.* 115: 987-990.
- Kiyota, A., et al. 2002. Anti-epidermal growth factor receptor monoclonal and p15^{INK4b} and induces G₁ arrest in oral squamous carcinoma cell lines. *Oncology* 63: 92-98.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 600431: World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Huang, W., et al. 2005. Histone deacetylase 3 represses p15^{INK4b} and p21^{WAF1/Cip1} transcription by interacting with Sp1. *Biochem. Biophys. Res. Commun.* 339: 165-171.
- Hutter, G., et al. 2005. Differential effect of epigenetic alterations and genomic deletions of CDK inhibitors (p16^{INK4a}, p15^{INK4b}, p14 ARF) in mantle cell lymphoma. *Genes Chromosomes Cancer* 45: 203-210.
- Shimamoto, T., et al. 2005. Methylation of p15^{INK4b} and E-cadherin genes is independently correlated with poor prognosis in acute myeloid leukemia. *Leuk. Res.* 29: 653-659.

CHROMOSOMAL LOCATION

Genetic locus: CDKN2B (human) mapping to 9p21.3.

PRODUCT

p15 (h): 293T Lysate represents a lysate of human p15 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

p15 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive p15 antibodies. Recommended use: 10-20 μ l per lane.

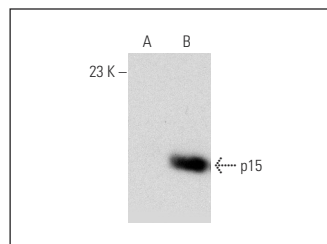
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

p15 (D-12): sc-271791 is recommended as a positive control antibody for Western Blot analysis of enhanced human p15 expression in p15 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



p15 (D-12): sc-271791. Western blot analysis of p15 expression in non-transfected: sc-117752 (A) and human p15 transfected: sc-129373 (B) 293T whole cell lysates.

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.