

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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# Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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- Gefahrgutzuschlag
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# p19 (m): 293T Lysate: sc-122302



The Power to Question

### **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. Isolated members of the p16 family have been designated p15, p18 and p19. p15 expression is upregulated approximately 30-fold in TGF $\beta$ -treated human keratinocytes, suggesting that p15 may function as an effector of TGF $\beta$ -mediated cell cycle arrest through inhibition of Cdk4 and Cdk6 kinases. The gene encoding p15 has been mapped to chromosome 9p21 at a position adjacent to the p16 gene, at a site of frequent chromosomal abnormality in human tumors. Two p16 related proteins, p19 and p18, specifically inhibit the kinase activities of Cdk4 and Cdk6, but do not affect those of cyclin E-Cdk2, cyclin A-Cdk2 or cyclin B-Cdc2 complexes. p19 is expressed at maximal level during S phase, while overexpression of p19 leads to G1 arrest.

# **REFERENCES**

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- 4. Guan, K.L., et al. 1994. Growth suppression by p18, a p16INK4/MTS1 and p14INK4B/Mts2-related Cdk6 inhibitor, correlates with wild-type pRb function. Genes Dev. 8: 2939-2952.
- Hussussian, C.J., et al. 1994. Germline p16 mutations in familial melanoma. Nat. Genet. 8: 15.
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- Hirai, H., et al. 1995. Novel INK4 proteins, p19 and p18, are specific inhibitors of the cyclin D-dependent kinases Cdk4 and Cdk6. Mol. Cell. Biol. 15: 2672-2681.

# CHROMOSOMAL LOCATION

Genetic locus: Cdkn2d (mouse) mapping to 9 A3.

# **PRODUCT**

p19 (m): 293T Lysate represents a lysate of mouse p19 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

# **APPLICATIONS**

p19 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive p19 antibodies. Recommended use: 10-20 µl per lane.

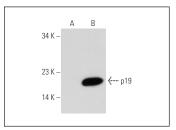
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

p19 (E-11): sc-1665 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse p19 expression in p19 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-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

### **DATA**



p19 (E-11): sc-1665. Western blot analysis of p19 expression in non-transfected: sc-117752 (A) and mouse p19 transfected: sc-122302 (B) 293T whole cell lysates.

## **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.

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