



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) 

Mig-6 (m): 293T Lysate: sc-125619

BACKGROUND

Mitogen-inducible gene 6 protein (Mig-6), also designated Gene 33 or RALT, belongs to the Mig-6 family. The gene encoding for Mig-6 maps to chromosome 1p36.23. Mig-6 is a cytoplasmic protein acting as a feedback inhibitor of ErbB-2 mitogenic function and can suppress ErbB-2 oncogenic activity. The expression of Mig-6 is upregulated with cell growth. Mig-6 binds to the epidermal growth factor receptor (EGFR) upon EGF stimulation and is considered a negative feedback regulator of EGFR and a potential tumor suppressor. Mig-6 induces transcriptional activation of NF κ B by binding to its inhibitor, I κ B- α . It enables the cell to respond persistently to chronic stress. Mig-6 mRNA levels increase in response to stress such as diabetic nephropathy, vasoactive peptides or mechanical strain. Mig-6 is expressed in liver, placenta and lung.

REFERENCES

1. Wick, M., Burger, C., Funk, M. and Muller, R. 1995. Identification of a novel mitogen-inducible gene (Mig-6): regulation during G₁ progression and differentiation. *Exp. Cell Res.* 219: 527-535.
2. Makkinje, A., Quinn, D.A., Chen, A., Cadilla, C.L., Force, T., Bonventre, J.V. and Kyriakis, J.M. 2000. Gene 33/Mig-6, a transcriptionally inducible adapter protein that binds GTP-Cdc42 and activates SAPK/JNK. A potential marker transcript for chronic pathologic conditions, such as diabetic nephropathy. Possible role in the response to persistent stress. *J. Biol. Chem.* 275: 17838-17847.
3. Fiorentino, L., Pertica, C., Fiorini, M., Talora, C., Crescenzi, M., Castellani, L., Alema, S., Benedetti, P. and Segatto, O. 2000. Inhibition of ErbB-2 mitogenic and transforming activity by RALT, a mitogen-induced signal transducer which binds to the ErbB-2 kinase domain. *Mol. Cell. Biol.* 20: 7735-7750.
4. Hackel, P.O., Gishizky, M. and Ullrich, A. 2001. Mig-6 is a negative regulator of the epidermal growth factor receptor signal. *Biol. Chem.* 382: 1649-1662.
5. Tsunoda, T., Inokuchi, J., Baba, I., Okumura, K., Naito, S., Sasazuki, T. and Shirasawa, S. 2002. A novel mechanism of nuclear factor κ B activation through the binding between inhibitor of nuclear factor- κ B α and the processed NH₂-terminal region of Mig-6. *Cancer Res.* 62: 5668-5671.
6. Keeton, A.B., Xu, J., Franklin, J.L. and Messina, J.L. 2004 Regulation of Gene33 expression by Insulin requires MEK-ERK activation. *Biochim. Biophys. Acta* 1679: 248-255.
7. Xu, D., Makkinje, A. and Kyriakis, J.M. 2005. Gene 33 is an endogenous inhibitor of epidermal growth factor (EGF) receptor signaling and mediates dexamethasone-induced suppression of EGF function. *J. Biol. Chem.* 280: 2924-2933.

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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: Errfi1 (mouse) mapping to 4 E2.

PRODUCT

Mig-6 (m): 293T Lysate represents a lysate of mouse Mig-6 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Mig-6 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Mig-6 antibodies. Recommended use: 10-20 μ l per lane.

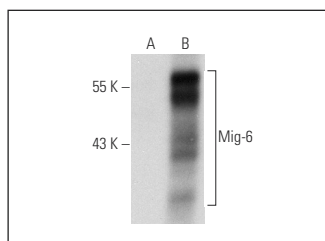
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Mig-6 (D-1): sc-137154 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Mig-6 expression in Mig-6 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



Mig-6 (D-1): sc-137154. Western blot analysis of Mig-6 expression in non-transfected: sc-117752 (A) and mouse Mig-6 transfected: sc-125619 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.