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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

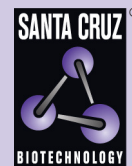
T. +43(0)1 489 3961-0

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) 



JRAB (h): 293T Lysate: sc-115725

BACKGROUND

JRAB (junctional Rab 13-binding protein, MICAL-like protein 2) is a 904 amino acid protein with one CH (calponin-homology) domain and one LIM zinc-binding domain. JRAB has been shown to interact with Rab 13 and Rab 8 to facilitate cellular transport of claudin-1, Occludin and E-cadherin. This interaction is vital for the coordination of the assembly of tight junctions (TJs) and adherens junctions (AJs). Dynamic turnover (endocytic recycling) of cell-to-cell AJs and TJs is essential for epithelial morphogenesis during normal development and differentiation. The endocytic recycling of Occludin and claudin proteins is part of an ongoing process of restructuring and maintaining cell junctions, especially at TJs. JRAB and Rab13 have also been implicated in the carcinoma metastasis event of epithelial cell scattering. This event shows Rab 13 and JRAB colocalizing with F-Actin in lamellipodial structures prior to cell scattering.

REFERENCES

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4. Yamamura, R., Nishimura, N., Nakatsuji, H., Arase, S. and Sasaki, T. 2008. The interaction of JRAB/MICAL-L2 with Rab 8 and Rab 13 coordinates the assembly of tight junctions and adherens junctions. *Mol. Biol. Cell* 19: 971-983.
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8. Sakane, A., Honda, K. and Sasaki, T. 2010. Rab 13 regulates neurite outgrowth in PC-12 cells through its effector protein, JRAB/MICAL-L2. *Mol. Cell. Biol.* 30: 1077-1087.

CHROMOSOMAL LOCATION

Genetic locus: MICALL2 (human) mapping to 7p22.3.

PRODUCT

JRAB (h): 293T Lysate represents a lysate of human JRAB transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

JRAB (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive JRAB 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.

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.