



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## EPI64 (h3): 293T Lysate: sc-128540

### BACKGROUND

The Na<sup>+</sup>/H<sup>+</sup> exchange protein (NHE) functions in transepithelial Na<sup>+</sup> absorption and is primarily expressed in the intestinal and renal brush border membrane. NHE regulatory factor 1 (NHERF-1) interacts with NHE through two PDZ (for PSD-95, discs-large, and ZO-1 homology) domains, which are protein-protein interaction modules that associate with specific C-terminal motifs on target proteins. Also known as EBP50, NHERF-1 facilitates cAMP inhibition of NHE to decrease Na<sup>+</sup> adsorption. NHERF-2, also known as E3KARP, is ubiquitously expressed as a protein which also functions in NHE-2 regulation. EBP-PDZ interactor (EPI64) contains a C-terminal -DTYL sequence that binds to the first PDZ domain of NHERF-1 and NHERF-2. EPI64 is ubiquitously expressed and localizes with NHERF-1 *in vitro*. The gene encoding human EPI64 maps to chromosome 22q12.2.

### REFERENCES

1. Sheng, M. 1996. PDZs and receptor/channel clustering: rounding up the latest suspects. *Neuron* 17: 575-578.
2. Yun, C.H., Oh, S., Zizak, M., Steplock, D., Tsao, S., Tse, C.M., Weinman, E.J. and Donowitz, M. 1997. cAMP-mediated inhibition of the epithelial brush border Na<sup>+</sup>/H<sup>+</sup> exchanger, NHE3, requires an associated regulatory protein. *Proc. Natl. Acad. Sci. USA* 94: 3010-3015.
3. Poulat, F., de Santa Barbara, P., Desclozeaux, M., Soullier, S., Moniot, B., Bonneaud, N., Boizet, B. and Berta, P. 1997. The human testis determining factor SRY bind a nuclear factor containing PDZ protein interaction domains. *J. Biol. Chem.* 272: 7167-7172.
4. Reczek, D. and Bretscher, A. 2001. Identification of EPI64, a TBC/rabGAP Domain-containing Microvillar Protein that binds to the first PDZ domain of EBP50 and E3KARP. *J. Cell Biol.* 153: 191-205.
5. Itoh, T and Fukuda, M. 2006. Identification of EPI64 as a GTPase-activating protein specific for Rab27A. *J. Biol. Chem.* 281: 31823-31831.
6. Hanono, A., Garbett, D., Reczek, D., Chambers, D.N. and Bretscher, A. 2006. EPI64 regulates microvillar subdomains and structure. *J. Cell Biol.* 175: 803-813.

### CHROMOSOMAL LOCATION

Genetic locus: TBC1D10A (human) mapping to 22q12.2.

### PRODUCT

EPI64 (h3): 293T Lysate represents a lysate of human EPI64 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

### APPLICATIONS

EPI64 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive EPI64 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.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.