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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) 

EHD4 (h3): 293T Lysate: sc-173519

BACKGROUND

Eps15 homology domain (EHD)-containing proteins function in the exit of receptors and other membrane proteins from the endosomal recycling compartment. EHD4 (Eps15 homology domain-containing protein 4), also known as PAST4 or Pincher, belongs to a subfamily of the EHD protein family that includes the closely related proteins EHD1, EHD2 and EHD3. EHD4 is predominantly expressed in pancreas and heart, localizing to vesicular and tubular structures in the cell. It contains an EH domain as well as a calcium binding EF hand. EHD4 is believed to function in transport from the early endosome to the endocytic recycling compartment. In addition, EHD4 is capable of binding lipids via its EH domain. Loss of EHD4 can lead to retention of transferrin in peripheral compartments suggesting that EHD4 regulates the transport of transferrin out of the early endosome.

REFERENCES

1. Pohl, U., Smith, J.S., Tachibana, I., Ueki, K., Lee, H.K., Ramaswamy, S., Wu, Q., Mohrenweiser, H.W., Jenkins, R.B. and Louis, D.N. 2000. EHD, EHD3, and EHD4 encode novel members of a highly conserved family of EH domain-containing proteins. *Genomics* 63: 255-262.
2. Kuo, H.J., Tran, N.T., Clary, S.A., Morris, N.P. and Glanville, R.W. 2001. Characterization of EHD4, an EH domain-containing protein expressed in the extracellular matrix. *J. Biol. Chem.* 276: 43103-43110.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605892. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Guilherme, A., Soriano, N.A., Furcinitti, P.S. and Czech, M.P. 2004. Role of EHD1 and EHP1 in perinuclear sorting and Insulin-regulated Glut4 recycling in 3T3-L1 adipocytes. *J. Biol. Chem.* 279: 40062-40075.
5. Smith, C.A., Dho, S.E., Donaldson, J., Tepass, U. and McGlade, C.J. 2004. The cell fate determinant numb interacts with EHD/RME-1 family proteins and has a role in endocytic recycling. *Mol. Biol. Cell* 15: 3698-3708.
6. Naslavsky, N. and Caplan, S. 2005. C-terminal EH-domain-containing proteins: consensus for a role in endocytic trafficking, EH? *J. Cell Sci.* 118: 4093-4101.
7. Naslavsky, N., Rahajeng, J., Chenavas, S., Sorgen, P.L. and Caplan, S. 2007. EHD1 and Eps15 interact with phosphatidylinositols via their Eps15 homology domains. *J. Biol. Chem.* 282: 16612-16622.
8. George, M., Ying, G., Rainey, M.A., Solomon, A., Parikh, P.T., Gao, Q., Band, V. and Band, H. 2007. Shared as well as distinct roles of EHD proteins revealed by biochemical and functional comparisons in mammalian cells and *C. elegans*. *BMC Cell Biol.* 8: 31.
9. Blume, J.J., Halbach, A., Behrendt, D., Paulsson, M. and Plomann, M. 2007. EHD proteins are associated with tubular and vesicular compartments and interact with specific phospholipids. *Exp. Cell Res.* 313: 219-231.

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.

CHROMOSOMAL LOCATION

Genetic locus: EHD4 (human) mapping to 15q15.1.

PRODUCT

EHD4 (h3): 293T Lysate represents a lysate of human EHD4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

EHD4 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive EHD4 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.

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.