BACKGROUND
The Eps15 homology (EH) domain-containing protein family consists of four members, EHD1, EHD2, EHD3 and EHD4. The chromosomal locations of the human EHD genes are as follows: EHD1 maps to 11q13.1, EHD2 maps to 19q13.32, EHD3 maps to 2p23.1 and EHD4 maps to 15q15.1. The encoded proteins of all EHD family members contain multiple conserved regions, which include an amino-terminal nucleotide-binding consensus site, a bipartite nuclear localization signal and a carboxy-terminal EH protein-binding domain with an EF-hand motif. EHD1 is ubiquitously expressed with increased expression in testis. EHD2, EHD3 and EHD4 have more specific expression with EHD2 highly expressed in heart, EHD3 expressed in brain, kidney, liver, placenta, ovary and heart, and EHD4 expressed in heart, placenta and pancreas. The EHD proteins may participate in ligand-induced endocytosis.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: EHD3 (human) mapping to 2p23.1; Ehd3 (mouse) mapping to E2.

SOURCE
EHD3 (RR-L) is a mouse monoclonal antibody raised against recombinant EHD3 of human origin.

PRODUCT
Each vial contains 100 µg IgG1 in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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

APPLICATIONS
EHD3 (RR-L) is recommended for detection of EHD3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including parafin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

Suitable for use as control antibody for EHD3 siRNA (h): sc-40519, EHD3 siRNA (m): sc-40520, EHD3 shRNA Plasmid (h): sc-40519-SH, EHD3 shRNA Plasmid (m): sc-40520-SH, EHD3 shRNA (h) Lentiviral Particles: sc-40519-V and EHD3 shRNA (m) Lentiviral Particles: sc-40520-V.

Molecular Weight of EHD3: 62 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, mouse heart extract: sc-2254 or HeLa whole cell lysate: sc-2200.

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DATA

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