SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-EHD3 antibody

Catalog Number: SL14527R

FOR RESEARCH USE ONLY

[DATASHEET]

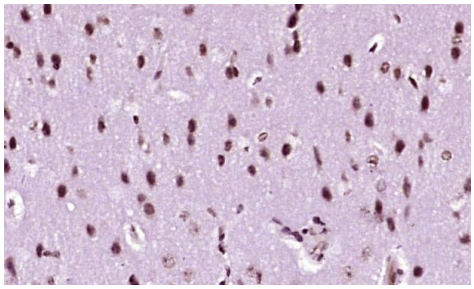
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	EHD3
Immunogen:	KLH conjugated synthetic peptide derived from human EHD3: 11-110/535
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	61kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	The Eps15 homology (EH) domain-containing protein family consists of four members, EHD1, EHD2, EHD3, and EHD4 (1). The chromosomal locations of the human EHD genes are as follows: EHD1 maps to 11q13, EHD2 maps to 19q13.3, EHD3 maps to 2p21, and EHD4 maps to 15q11.1 (1-3). 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 (3,4). EHD1 is ubiquitously expressed with increased expression in testis (2,3). 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 (1,5,6). The EHD proteins may participate in ligand-induced endocytosis (3-5).

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: EHD3 contains one EF-hand domain and one EH domain. It plays a role in endocytic transport. EHD3 is highly expressed in heart and brain and moderately expressed in kidney, liver and placenta. **Subunit:** Homooligomer, and heterooligomer with EHD1, EHD2 and EHD4. Interacts with PACSIN1 and PACSIN2. Interacts (via EH domain) with MICALL1. **Subcellular Location:** Endosome membrane, cytoplasmic side. Nucleus. **Tissue Specificity:** Highly expressed in heart and brain and moderately expressed in kidney, liver, and placenta. **Similarity:** Contains 1 EF-hand domain. Contains 1 EH domain. **Database links:** **Entrez Gene:** 30845 Human **Entrez Gene:** 57440 Mouse Omim: 605891 Human **SwissProt:** Q9NZN3 Human **SwissProt:** Q9QXY6 Mouse

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (EHD3) Polyclonal Antibody, Unconjugated (SL14527R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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