For Research Use Only

EHD1 Polyclonal antibody

Catalog Number:24657-1-AP Featured Product 5 Publications

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Basic Information

Catalog Number:
24657-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG18400

GenBank Accession Number:
BC104799

GeneID (NCBI):
10938

UNIPROT ID:
Q9H4M9

Full Name:
EH-domain containing 1

Calculated MW:
534 aa, 61 kDa

Observed MW:
61 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse lung tissue, mouse brain tissue, HeLa cells, mouse testis tissue, rat lung tissue

IP : mouse testis tissue,

IHC : human stomach cancer tissue, human intrahepatic cholangiocarcinoma tissue

Background Information

EHD1 (Eps15 Homology Domain Containing 1) is a protein that plays a crucial role in endocytic recycling, which is the process by which cells recycle their membrane components. It is one of four paralogs in mammals (EHD1-4) and is involved in several membrane trafficking pathways. EHD1 is particularly well-studied and is known to regulate the recycling of various cell surface receptors back to the cell surface after they have been endocytosed. This process is essential for maintaining the proper distribution of receptors and other membrane proteins, which in turn affects cellular signaling and function. EHD1 has been implicated in the regulation of the transferrin receptor (TfR), major histocompatibility complex (MHC) class I proteins, β1 integrins, and other receptors. It has also been shown to interact with Rab11-FIP2 and is localized to peripheral endosomes, suggesting a role in the transport of receptors from early endosomes to the endocytic recycling compartment (ERC). Furthermore, EHD1 has been linked to dynein motors that drive transport from early endosomes to the ERC via a complex including MICAL-L1 and the collapsin response mediator protein-2 (Crmp2).

Notable Publications

Author	Pubmed ID	Journal	Application
Shaarvari Bhat	33033331	Sci Rep	WB
Hiroki Yukimoto	32423824	Biochem Biophys Res Commun	WB,IF
Tatsuo Miyamoto	32368833	EMBO J	WB

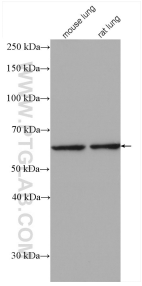
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

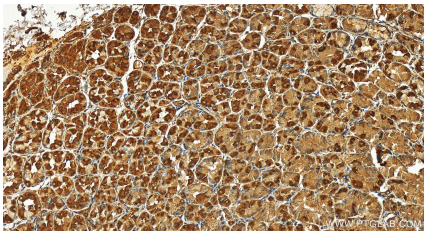
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

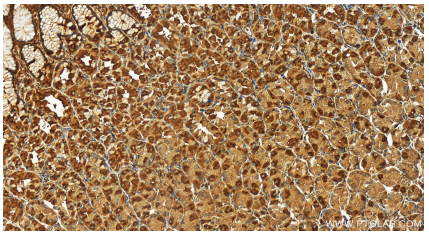
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 24657-1-AP (EHD1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 24657-1-AP (EHD1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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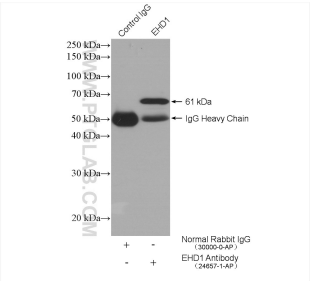

IP result of anti-EHD1 (IP:24657-1-AP, 4ug; Detection:24657-1-AP 1:1000) with mouse testis tissue lysate 4000 ug.