

# PHLDB2 Polyclonal antibody

Catalog Number: 27940-1-AP

## Basic Information

## Catalog Number:

27940-1-AP

## Concentration:

800 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG27331

## GenBank Accession Number:

BC142678

## GeneID (NCBI):

90102

## UNIPROT ID:

Q86SQ0

## Full Name:

pleckstrin homology-like domain,  
family B, member 2

## Calculated MW:

1253 aa, 142 kDa

## Observed MW:

150 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:400-1:1600

## Applications

## Tested Applications:

WB, IHC, ELISA

## Species Specificity:

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 : A431 cells,

IHC : human skin cancer tissue, human placenta tissue,  
mouse heart tissue

## Background Information

The pleckstrin homology-like domain (PHLD) class of proteins are multifunctional proteins comprised of two families of proteins, PHLDA and PHLDB, each with 3 members: PHLDA1, PHLDA2, PHLDA3, PHLDB1, PHLDB2, and PHLDB3 (PMID: 32429563). All the family members possess a pleckstrin homology (PH) domain. PHLB2, also known as LL5-beta, contains two predicted coiled-coil domains, a serine-rich region predicted to contain multiple protein kinase C phosphorylation sites in addition to a PH domain (PMID: 15851520). PHLB2 is a filamin-binding protein that is an effector of the PI3K signaling pathway (PMID: 17174070). It is a PtdIns(3,4,5)P3 (PIP3) binding protein and can translocate to the plasma membrane in a receptor and PI3K-dependant manner (PMID: 12376540). PHLB2 has also been reported as a component of the postsynaptic apparatus and a regulator of postsynaptic differentiation (PMID: 15851520).

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

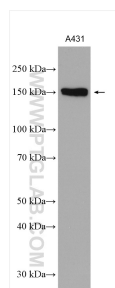
For technical support and original validation data for this product please contact:

T: 4006900926

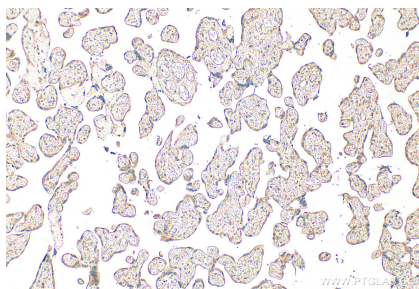
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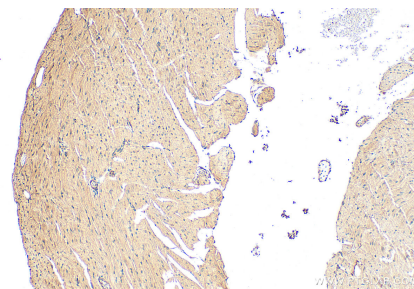
## Selected Validation Data



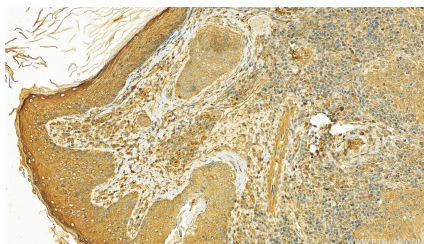
A431 cells were subjected to SDS PAGE followed by western blot with 27940-1-AP (PHLDB2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



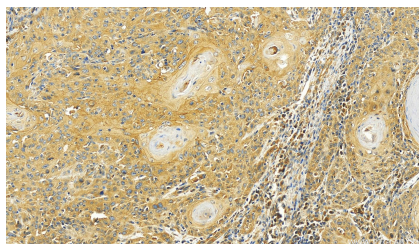
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 27940-1-AP (PHLDB2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 27940-1-AP (PHLDB2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 27940-1-AP (PHLDB2 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 27940-1-AP (PHLDB2 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).