

For Research Use Only

SHLD1 Polyclonal antibody

Catalog Number: 24347-1-AP



Basic Information

Catalog Number:

24347-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19727

GenBank Accession Number:

BC035800

GeneID (NCBI):

149840

UNIPROT ID:

Q8IY10

Full Name:

chromosome 20 open reading frame
196

Calculated MW:

205 aa, 23 kDa

Observed MW:

25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IHC: 1:50-1:500

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: mouse brain tissue,

IHC: human ovary tumor tissue,

Background Information

SHLD1, also known as FAM35A, is a key protein in the field of DNA damage repair. As a core component of the Shieldin complex, SHLD1 plays a critical role in maintaining genomic stability. Its primary function is to inhibit the resection of DNA double-strand break ends, directing repair toward the non-homologous end joining pathway while suppressing accurate homologous recombination repair. This function makes SHLD1 an important target for cancer therapy. In BRCA-mutant tumors, the expression level of SHLD1 directly affects the efficacy of PARP inhibitors-intact SHLD1 function renders cancer cells sensitive to the drugs, while its loss leads to drug resistance. Therefore, SHLD1 is not only a fundamental element in basic research on DNA damage response mechanisms but also a highly valuable tumor biomarker and prognostic indicator, offering new directions for personalized cancer treatment.

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

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

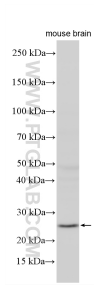
T: 4006900926

E: Proteintech-CN@ptglab.com

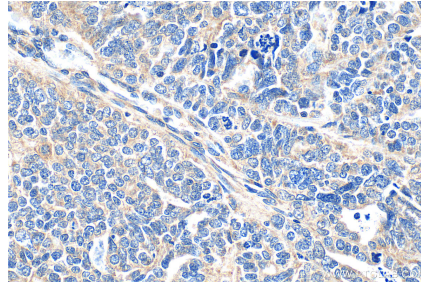
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 24347-1-AP (SHLD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 24347-1-AP (SHLD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).