

For Research Use Only

# AASS Polyclonal antibody, PBS Only

Catalog Number: 29354-1-PBS



## Basic Information

**Catalog Number:**

29354-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG29520

**GenBank Accession Number:**

NM\_005763

**GeneID (NCBI):**

10157

**UNIPROT ID:**

Q9UDR5

**Full Name:**

aminoadipate-semialdehyde synthase

**Calculated MW:**

102 kDa

**Observed MW:**

100-110 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, IP, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

Aminoadipate-semialdehyde synthase (AASS) is a bifunctional enzyme catalyzing the first two steps of lysine degradation via the saccharopine pathway. It possesses both lysine-ketoglutarate reductase and saccharopine dehydrogenase activities. Mutations in the AASS gene cause familial hyperlysinemia, a rare autosomal recessive disorder characterized by elevated plasma lysine levels, though clinical manifestations are typically benign. AASS dysfunction disrupts mitochondrial energy metabolism and amino acid homeostasis. Beyond its metabolic role, emerging evidence suggests AASS may influence cellular redox status and autophagy regulation, positioning it as a potential therapeutic target for metabolic disorders and lysine-related pathologies (PMID: 41158987; 10775527).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

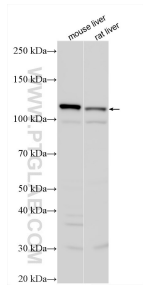
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

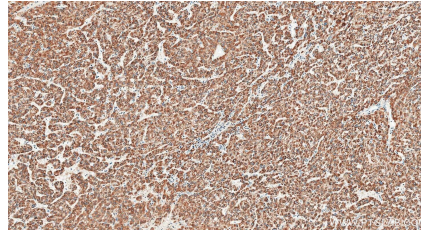
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

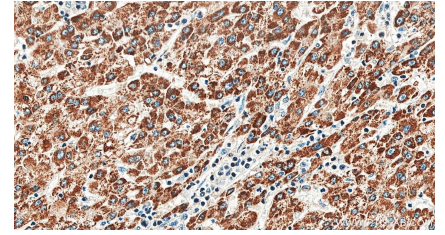
## Selected Validation Data



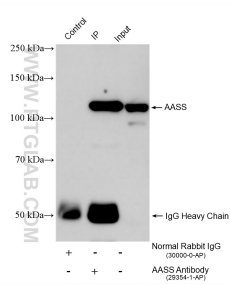
Various lysates were subjected to SDS PAGE followed by western blot with 29354-1-AP (AASS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 29354-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 29354-1-AP (AASS antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29354-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 29354-1-AP (AASS antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29354-1-PBS in a different storage buffer formulation.



IP result of anti-AASS (IP:29354-1-AP, 4ug; Detection:29354-1-AP 1:3000) with mouse liver tissue lysate 2480 ug. This data was developed using the same antibody clone with 29354-1-PBS in a different storage buffer formulation.