

## **Product Name: AASS Rabbit Polyclonal Antibody**

Catalog #: APRab06382

For research use only.

### **Summary**

**Description** Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human,Rat,Mouse
Conjugation Unconjugated
Modification Unmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

## **Application**

**Dilution Ratio** WB 1:500-1:2000,ELISA 1:5000-1:20000

Molecular Weight 102kDa

# **Antigen Information**

Gene Name AASS

Alternative Names AASS; Alpha-aminoadipic semialdehyde synthase; mitochondrial; LKR/SDH

 Gene ID
 10157.0

 SwissProt ID
 Q9UDR5

The antiserum was produced against synthesized peptide derived from human AASS. AA **Immunogen** 

range:251-300

## **Background**

This gene encodes a bifunctional enzyme that catalyzes the first two steps in the mammalian lysine degradation pathway. The

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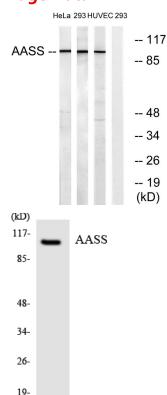


N-terminal and the C-terminal portions of this enzyme contain lysine-ketoglutarate reductase and saccharopine dehydrogenase activity, respectively, resulting in the conversion of lysine to alpha-aminoadipic semialdehyde. Mutations in this gene are associated with familial hyperlysinemia. [provided by RefSeq, Jul 2008],catalytic activity:N(6)-(L-1,3-dicarboxypropyl)-L-lysine + NAD(+) + H(2)O = L-glutamate + 2-aminoadipate 6-semialdehyde + NADH.,catalytic activity:N(6)-(L-1,3-dicarboxypropyl)-L-lysine + NADP(+) + H(2)O = L-lysine + 2-oxoglutarate + NADPH.,disease:Defects in AASS are the cause of hyperlysinemia [MIM:238700]. Hyperlysinemia is an autosomal recessive condition characterized by hyperlysinemia lysinuria and variable saccharopinuria.,function:Bifunctional enzyme that catalyzes the first two steps in lysine degradation. The N-terminal and the C-terminal contain lysine-ketoglutarate reductase and saccharopine dehydrogenase activity, respectively.,induction:Induced by starvation.,pathway:Amino-acid degradation; L-lysine degradation via saccharopine pathway; glutaryl-CoA from L-lysine: step 1/6.,pathway:Amino-acid degradation; L-lysine degradation via saccharopine pathway; glutaryl-CoA from L-lysine: step 2/6.,similarity:In the C-terminal section; belongs to the saccharopine dehydrogenase family.,similarity:In the N-terminal section; belongs to the AlaDH/PNT family.,subunit:Homodimer.,tissue specificity:Expressed in all 16 tissues examined with highest expression in the liver.,

#### **Research Area**

Lysine biosynthesis; Lysine degradation;

### **Image Data**

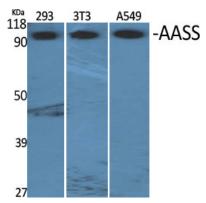


Western blot analysis of lysates from 293, HUVEC, and HeLa cells, using AASS Antibody. The lane on the right is blocked with the synthesized peptide.

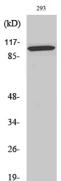
Western blot analysis of the lysates from COLO205 cells using AASS antibody.

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Western Blot analysis of various cells using AASS Polyclonal Antibody



Western Blot analysis of HeLa cells using AASS Polyclonal Antibody