

**Aspartate Aminotransferase Antibody (aa157-167)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS12253****Specification**

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**Aspartate Aminotransferase Antibody (aa157-167) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P17174</a>
Reactivity	Human, Rat, Hamster
Host	Goat
Clonality	Polyclonal
Calculated MW	46kDa KDa

**Aspartate Aminotransferase Antibody (aa157-167) - Additional Information****Gene ID** 2805**Other Names**

Aspartate aminotransferase, cytoplasmic, cAspAT, 2.6.1.1, 2.6.1.3, Cysteine aminotransferase, cytoplasmic, Cysteine transaminase, cytoplasmic, cCAT, Glutamate oxaloacetate transaminase 1, Transaminase A, GOT1

**Target/Specificity**

Human GOT1.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

Aspartate Aminotransferase Antibody (aa157-167) is for research use only and not for use in diagnostic or therapeutic procedures.

**Aspartate Aminotransferase Antibody (aa157-167) - Protein Information****Name** GOT1 ([HGNC:4432](#))**Function**

Biosynthesis of L-glutamate from L-aspartate or L-cysteine (PubMed:<a href="http://www.uniprot.org/citations/21900944" target="\_blank">21900944</a>). Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H(2)S via the action of 3-mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain. In addition, catalyzes (2S)-2- aminobutanoate, a by-product in the cysteine biosynthesis pathway (PubMed:<a href="http://www.uniprot.org/citations/27827456" target="\_blank">27827456</a>).

**Cellular Location**  
Cytoplasm.

### **Aspartate Aminotransferase Antibody (aa157-167) - Protocols**

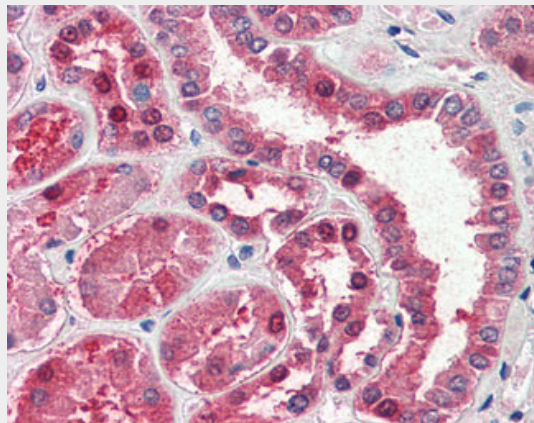
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

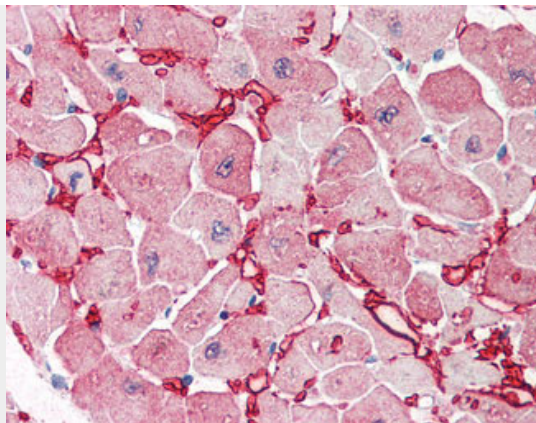
### **Aspartate Aminotransferase Antibody (aa157-167) - Images**



Antibody (0.01 ug/ml) staining of Human Liver lysate (35 ug protein in RIPA buffer).



Anti-GOT1 antibody IHC of human kidney.



Anti-GOT1 antibody IHC of human heart.

### **Aspartate Aminotransferase Antibody (aa157-167) - Background**

Biosynthesis of L-glutamate from L-aspartate or L-cysteine. Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H<sub>2</sub>S via the action of 3- mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain.

### **Aspartate Aminotransferase Antibody (aa157-167) - References**

- Bousquet-Lemerrier B., et al. *Biochemistry* 29:5293-5299(1990).  
Wang C.Y., et al. Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.  
Yu W., et al. Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Deloukas P., et al. *Nature* 429:375-381(2004).