

**GOT1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51988**

**Specification**

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**GOT1 Antibody - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P17174</a>
Reactivity	<b>Human, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>46 KDa</b>

**GOT1 Antibody - Additional Information**

**Gene ID** 2805

**Other Names**

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

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**GOT1 Antibody - 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.

## **GOT1 Antibody - 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](#)

## **GOT1 Antibody - Images**

### **GOT1 Antibody - Background**

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### **GOT1 Antibody - 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).