

Aspartate Aminotransferase Antibody
Rabbit Polyclonal Antibody
Catalog # ALS17248**Specification**

Aspartate Aminotransferase Antibody - Product Information

Application	IHC-P, WB
Primary Accession	P17174
Other Accession	2805
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	46248

Aspartate Aminotransferase Antibody - Additional Information**Gene ID** 2805**Other Names**

GOT1, Aspartate Aminotransferase, ASTQTL1, Growth-inhibiting protein 18, Transaminase A, GIG18

Target/Specificity

Human Aspartate Aminotransferase.

Reconstitution & Storage

PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.

Precautions

Aspartate Aminotransferase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

Biosynthesis of L-glutamate from L-aspartate or L-cysteine (PubMed:21900944). 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:27827456).

Cellular Location

Cytoplasm.

Volume

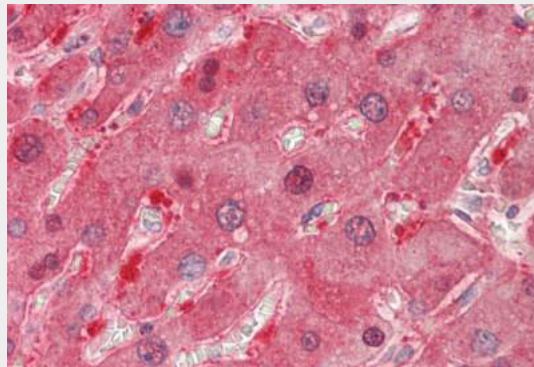
50 μ l

Aspartate Aminotransferase Antibody - Protocols

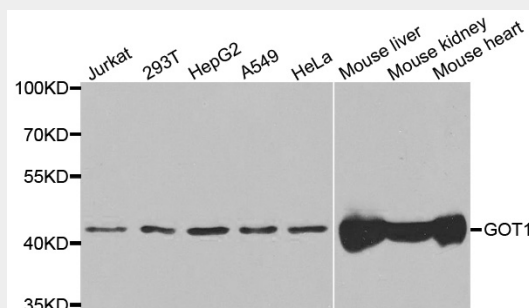
Provided below are standard protocols that you may find useful for product applications.

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

Aspartate Aminotransferase Antibody - Images



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western blot analysis of extracts of various cell lines, using GOT1 antibody.

Aspartate Aminotransferase Antibody - Background

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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 H₂S via the action of 3- mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain.

Aspartate Aminotransferase 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).