

Aspartate Aminotransferase Antibody
Sheep Polyclonal Antibody
Catalog # ALS11214**Specification**

Aspartate Aminotransferase Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | IHC |
| Primary Accession | P17174 |
| Reactivity | Human, Pig |
| Host | Sheep |
| Clonality | Polyclonal |
| Calculated MW | 46kDa KDa |

Aspartate Aminotransferase Antibody - 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

Aspartate Transaminase

Reconstitution & Storage

Long term: -20°C; Short term: -20°C

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.

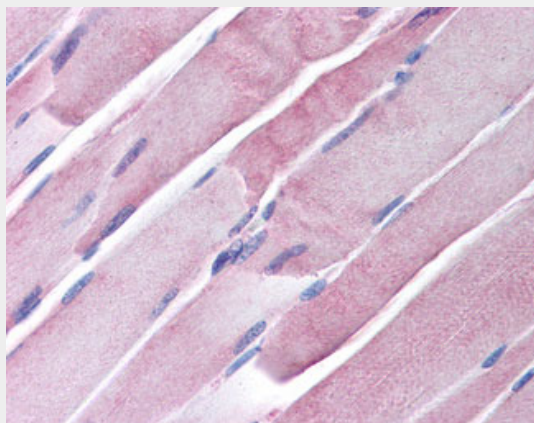
Volume

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

Anti-GOT2 antibody IHC of human skeletal muscle.

Aspartate Aminotransferase Antibody - Background

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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).