

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

Specification

Aspartate Aminotransferase Antibody (aa157-167) - Product Information

Application	WB, IHC
Primary Accession	P17174
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: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.

Aspartate Aminotransferase Antibody (aa157-167) - Protocols

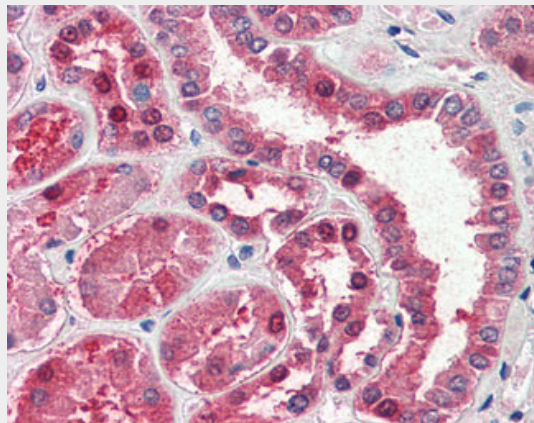
Provided below are standard protocols that you may find useful for product applications.

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

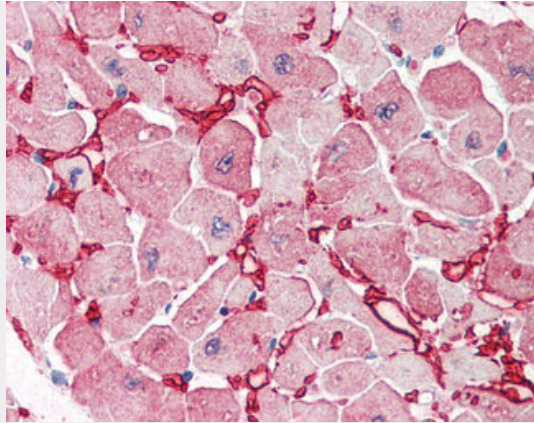
Aspartate Aminotransferase Antibody (aa157-167) - Images



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 H₂S 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).