10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

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).

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Cellular Location
Cytoplasm.

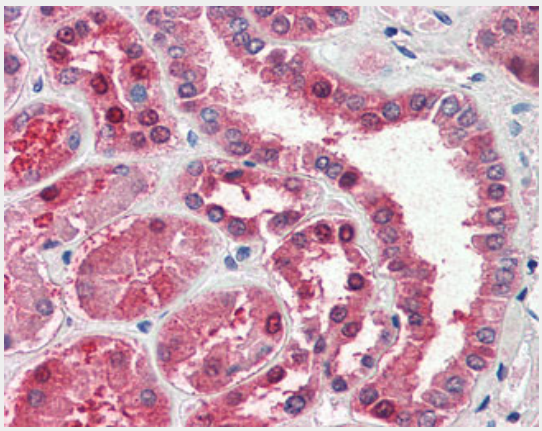
Aspartate Aminotransferase Antibody (aa157-167) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.

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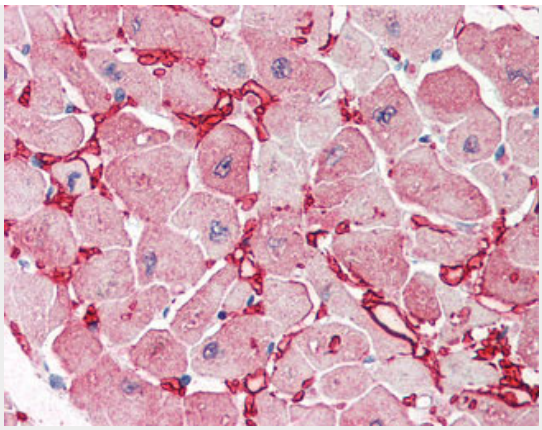

Anti-GOT1 antibody IHC of human heart.

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(2)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-Lemercier 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).