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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.

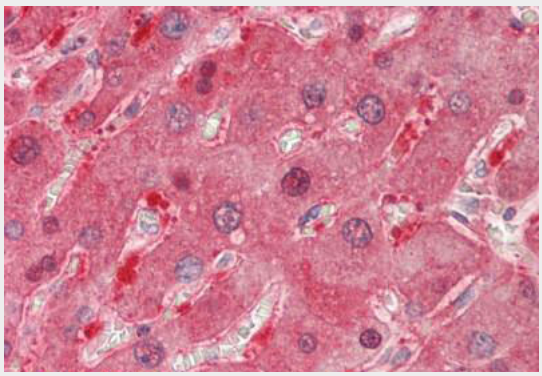
Volume
50 µl

Aspartate Aminotransferase Antibody - Protocols

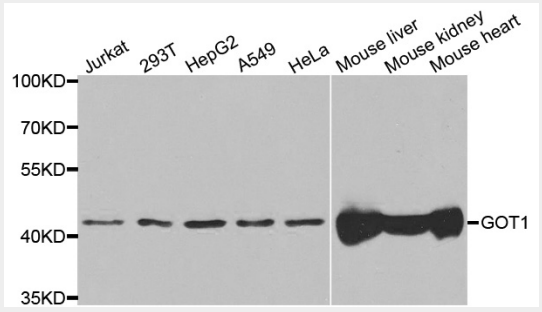
Provided below are standard protocols that you may find useful for product applications.

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