

KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody

Rabbit polyclonal antibody

Catalog # AGI2121

Product Information

Application	WB
Primary Accession	P17174
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46248
Gene Name	GOT1
Aliases	GOT1; Glutamic-Oxaloacetic Transaminase 1; Glutamate Oxaloacetate Transaminase 1; AST1; SGOT; AST; Glutamic-Oxaloacetic Transaminase 1, Soluble; Aspartate Aminotransferase, Cytoplasmic; Cysteine Aminotransferase, Cytoplasmic; Cysteine Transaminase, Cytoplasmic; Aspartate Aminotransferase 1; Aspartate Transaminase 1; Transaminase A; EC 2.6.1.1; CAspAT; CCAT; Glutamic-Oxaloacetic Transaminase 1, Soluble (Aspartate Aminotransferase 1); Testis Secretory Sperm-Binding Protein Li 196a; Growth-Inhibiting Protein 18; EC 2.6.1.3; ASTQTL1; GIG18
Immunogen	A synthesized peptide derived from human GOT1

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 (HGNC:4432)

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.

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