

Recombinant Anti-GOT1 Rabbit mAb

Catalog # AP95103

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P17174
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	46248

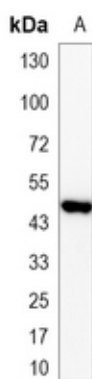
Additional Information

Gene ID	2805
Other Names	Aspartate aminotransferase, cytoplasmic; cAspAT; Cysteine aminotransferase, cytoplasmic; Cysteine transaminase, cytoplasmic; cCAT; Glutamate oxaloacetate transaminase 1; Transaminase A
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human GOT1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

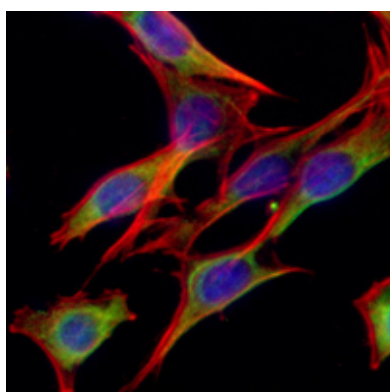
Protein Information

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.

Images



Western blot analysis of GOT1 expression in MCF7 (A) whole cell lysates. (Predicted band size: 46 kD; Observed band size: 46 kD)



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