

Aspartate Aminotransferase Rabbit mAb

Catalog # AP75112

Product Information

Application WB, IHC-P, IHC-F, ICC

Primary Accession P17174

Reactivity Human, Mouse, Rat

Host Rabbi

Clonality Monoclonal Antibody

Calculated MW 46248

Additional Information

Gene ID 2805

Other Names GOT1

Dilution WB~~1/500-1/1000 IHC-P~~N/A IHC-F~~N/A ICC~~N/A

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and

0.05% BSA.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

Protein Information

Name GOT1 (HGNC:4432)

Function Biosynthesis of L-glutamate from L-aspartate or L-cysteine

(PubMed:<u>21900944</u>). Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as

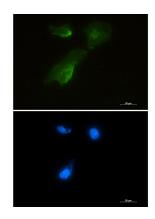
a scavenger of glutamate in brain neuroprotection. The aspartate

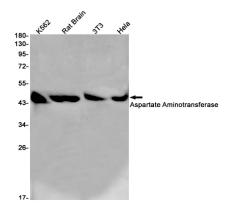
aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H(2)S via the action of 3-mercaptopyruvate 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

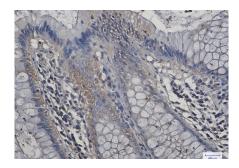
pathway (PubMed: 27827456).

Cellular Location Cytoplasm.

Images







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