

# Goat Anti-GOT1 (aa 22-35) Antibody

Peptide-affinity purified goat antibody Catalog # AF1489b

### **Specification**

# Goat Anti-GOT1 (aa 22-35) Antibody - Product Information

Application WB, E
Primary Accession P17174

Other Accession <u>NP\_002070</u>, <u>2805</u>, <u>14718 (mouse)</u>

Reactivity
Predicted
Host
Clonality
Concentration
Human
Mouse
Goat
Polyclonal
100ug/200ul

Isotype IgG
Calculated MW 46248

### Goat Anti-GOT1 (aa 22-35) Antibody - 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

### **Dilution**

WB~~1:1000 E~~N/A

### **Format**

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

# **Precautions**

Goat Anti-GOT1 (aa 22-35) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-GOT1 (aa 22-35) Antibody - Protein Information

Name GOT1 (HGNC:4432)

# **Function**



Biosynthesis of L-glutamate from L-aspartate or L-cysteine (PubMed:<a href="http://www.uniprot.org/citations/21900944" target="\_blank">21900944</a>). 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:<a href="http://www.uniprot.org/citations/27827456" target="\_blank">27827456</a>).

**Cellular Location** Cytoplasm.

# Goat Anti-GOT1 (aa 22-35) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Goat Anti-GOT1 (aa 22-35) Antibody - Images



AF1489b (0.5  $\mu$ g/ml) staining of Human Liver lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-GOT1 (aa 22-35) Antibody - Background

Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology.

### Goat Anti-GOT1 (aa 22-35) Antibody - References





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