

**KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody**  
**Rabbit polyclonal antibody**  
**Catalog # AGI2121****Specification****KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P17174</a>
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 46 kDa, observed, 41 kDa
Gene Name	<b>GOT1</b>
Aliases	<b>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</b>
Immunogen	<b>A synthesized peptide derived from human GOT1</b>

**KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody - Additional Information**

Gene ID	<b>2805</b>
<b>Other Names</b>	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 ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4432">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4432</a> target="_blank">HGNC:4432</a>)

**KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody - Protein Information****Name** GOT1 ([HGNC:4432](#))**Function**Biosynthesis of L-glutamate from L-aspartate or L-cysteine (PubMed:<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<sub>2</sub>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

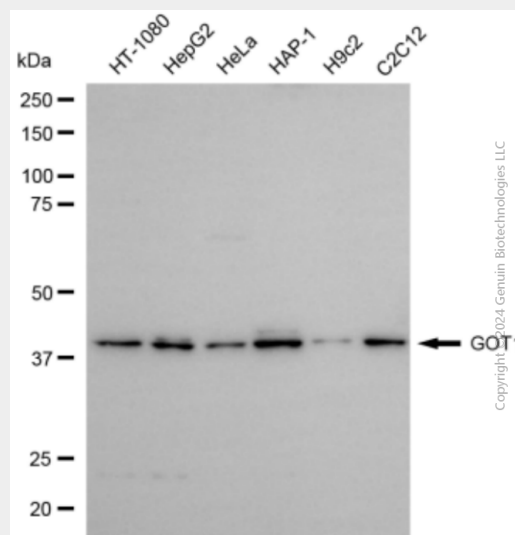
Cytoplasm.

#### KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody - Protocols

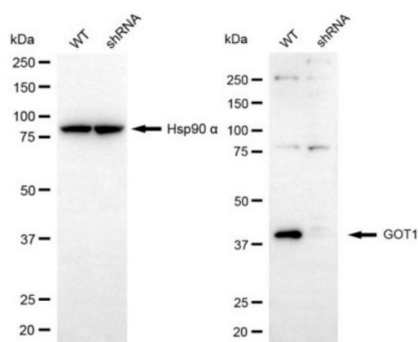
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### KD-Validated Anti-GOT1 Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-GOT1 antibody (Cat#AGI2121). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-GOT1 antibody (Cat#AGI2121, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Western blotting analysis using anti-GOT1 antibody (Cat #AGI2121). GOT1 expression in wild-type (WT) and GOT1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-GOT1 antibody (Cat #AGI2121, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody respectively.