

Rabbit anti-Human Aspartate Aminotransferase Polyclonal Antibody | anti-GOT1 antibody

Anti-Aspartate Aminotransferase Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257539	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Aspartate Aminotransferase; Polyclonal Antibody; Anti-Aspartate Aminotransferase Antibody; Rabbit Polyclonal; Aspartate aminotransferase/GOT1 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-ASTQTL1 Antibody; Anti-cAspAT Antibody; Anti-cCAT Antibody; Anti-GIG18 Antibody; glutamic-oxaloacetic transaminase 1; soluble; anti-GOT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Aspartate aminotransferase/GOT1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid. 0.2um filtered solution in PBS
Applicable Applications for anti-GOT1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Aspartate aminotransferase/GOT1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Aspartate aminotransferase/GOT1 (rh Aspartate aminotransferase/GOT1; P17174; Met1-Gln413). Aspartate aminotransferase/GOT1 specific IgG was purified by Human Aspartate aminotransferase/GOT1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



IP (Immunoprecipitation)

GOT1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg K562 Whole Cell Lysate; 2 uL anti-GOT1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-GOT1 rabbit polyclonal antibody, at 1:200 dilution. Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 40 kDa. Observed band size: 40 kDa.



WB (Western Blot)

Anti-GOT1 rabbit polyclonal antibody at 1:500 dilution. Lane A: MCF7 Whole Cell Lysate; Lane B: K562 Whole Cell Lysate; Lane C: HepG2 Whole Cell Lysate; Lane D: A549 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 46 kDa. Observed band size: 40 kDa. (We are unsure as to the identity of these extra bands.)



IHC (Immunohistochemistry)

Immunochemical staining of human GOT1 in human kidney with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-GOT1 antibody	Background: GOT1 (Glutamic-Oxaloacetic Transaminase 1) is a Protein Coding gene. GOT1 belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme that 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. GOT1 is an important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. GOT1 is broadly expressed in the heart, liver, and other tissues. Diseases associated with GOT1 include Aspartate Aminotransferase, Serum Level Of, Quantitative Trait Locus 1, and Lujo Hemorrhagic Fever.
References	Shen H, et al. (2011) Genome-wide association study identifies genetic variants in GOT1 determining serum aspartate aminotransferase levels. J Hum Genet. 56(11):801-5. Doonan S, et al. (1985) Structural and genetic relationships between cytosolic and mitochondrial isoenzymes. Int J Biochem. 16(12):1193-9. Panteghini M. (1990) Aspartate aminotransferase isoenzymes. Clin Biochem. 23(4):311-9. Bousquet-Lemerrier B, et al. (1990) Properties of human liver cytosolic aspartate aminotransferase mRNAs generated by alternative polyadenylation site selection. Biochemistry. 29(22):5293-9.

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