

Mouse Aspartate Aminotransferase/GOT1 Monoclonal Antibody | anti-GOT1 antibody

Anti-Aspartate Aminotransferase/GOT1 Antibody Picoband (monoclonal, 6B3B4)

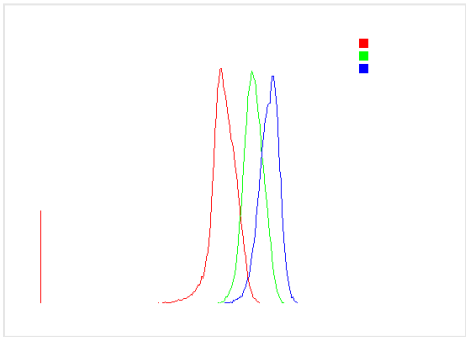
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126934	Mouse	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Aspartate Aminotransferase/GOT1; Monoclonal Antibody; Anti-Aspartate Aminotransferase/GOT1 Antibody Picoband (monoclonal; 6B3B4); anti-GOT1 antibody

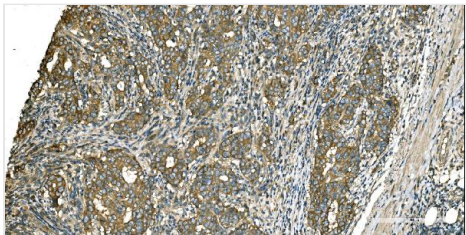
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	6B3B4
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-GOT1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Aspartate Aminotransferase/GOT1 recombinant protein (Position: S5-Q413).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



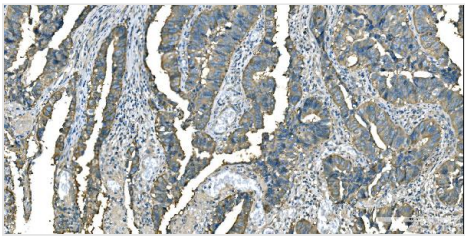
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-Aspartate Aminotransferase/GOT1 antibody (AAA126934).Overlay histogram showing HepG2 cells stained with AAA126934 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Aspartate Aminotransferase/GOT1 Antibody (AAA126934, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



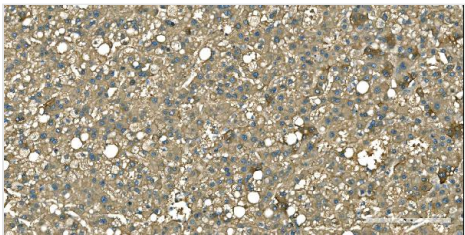
IHC (Immunohistochemisry)

Figure 3. IHC analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (AAA126934).Aspartate Aminotransferase/GOT1 was detected in a paraffin-embedded section of human renal pelvis squamous tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Aspartate Aminotransferase/GOT1 Antibody (AAA126934) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



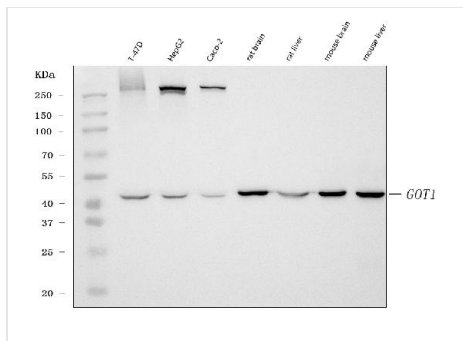
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (AAA126934).Aspartate Aminotransferase/GOT1 was detected in a paraffin-embedded section of human rectum adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Aspartate Aminotransferase/GOT1 Antibody (AAA126934) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (AAA126934).Aspartate Aminotransferase/GOT1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Aspartate Aminotransferase/GOT1 Antibody (AAA126934) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (AAA126934). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human T-47D whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat liver tissue lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Aspartate Aminotransferase/GOT1 antigen affinity purified monoclonal antibody (#AAA126934) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Aspartate Aminotransferase/GOT1 at approximately 43 kDa. The expected band size for Aspartate Aminotransferase/GOT1 is at 46 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GOT1 antibody	Aspartate aminotransferase, cytoplasmic is an enzyme that in humans is encoded by the GOT1 gene. 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.
Product Categories/Family for anti-GOT1 antibody	Primary Antibodies , Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504067
NCBI GeneID	2805
NCBI Accession #	NP_002070.1
NCBI GenBank Nucleotide #	NM_002079.2
UniProt Accession #	P17174 ; Q5VW80 ; B2R6R7 ; B7Z7E9
Molecular Weight	44,147 Da
NCBI Official Full Name	aspartate aminotransferase, cytoplasmic
NCBI Official Synonym Full Names	glutamic-oxaloacetic transaminase 1, soluble
NCBI Official Symbol	GOT1
NCBI Official Synonym Symbols	cCAT; GIG18; cAspAT; ASTQTL1
NCBI Protein Information	aspartate aminotransferase, cytoplasmic; aspartate aminotransferase 1; aspartate transaminase 1; cysteine aminotransferase, cytoplasmic; cysteine transaminase, cytoplasmic; glutamate oxaloacetate transaminase 1; growth-inhibiting protein 18; transaminase
UniProt Protein Name	Aspartate aminotransferase, cytoplasmic

UniProt Gene Name	GOT1
UniProt Synonym Gene Names	cAspAT; cCAT
UniProt Entry Name	AATC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/aspartate-aminotransferase-got1-antibody-clone-6b3b4-flow-cytometry-immunohistochemistry-western-blot-elisa/126934>