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antibody and ELISA experts

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

Catalog Number: M04085-1

About GOT1

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.

Overview

Product Name	Anti-Aspartate Aminotransferase/GOT1 Antibody Picoband® (monoclonal, 6B3B4)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Aspartate Aminotransferase/GOT1 Antibody Picoband® (monoclonal, 6B3B4) catalog # M04085-1. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IHC, WB
Clonality	Monoclonal 6B3B4
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	P17174

Technical Details

Immunogen	E.coli-derived human Aspartate Aminotransferase/GOT1 recombinant protein (Position: S5-Q413).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	IgG2b
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/ml, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human

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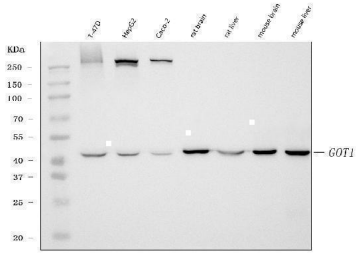
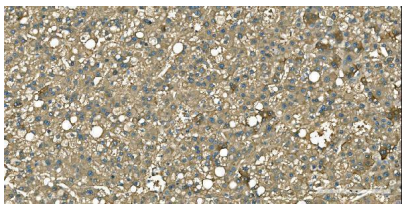
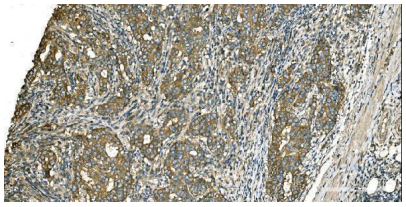
Anti-Aspartate Aminotransferase/GOT1 Antibody Picoband® (monoclonal, 6B3B4) (M04085-1) Images



Western blot analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (M04085-1). 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 (Catalog # M04085-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1001) 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.



IHC analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (M04085-1). 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 (M04085-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



IHC analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (M04085-1). 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 (M04085-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at

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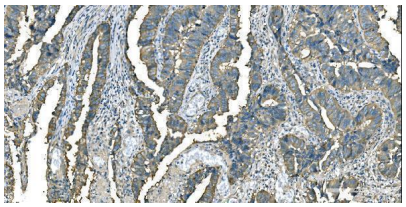
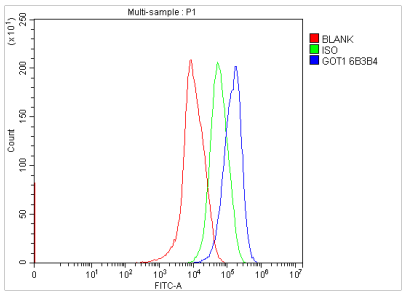


IHC analysis of Aspartate Aminotransferase/GOT1 using anti-Aspartate Aminotransferase/GOT1 antibody (M04085-1). Aspartate Aminotransferase/GOT1 was detected in a paraffin-embedded section of human rectum adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope 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 (M04085-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit (Catalog # SV0001) with DAB as the chromogen.



Flow Cytometry analysis of HepG2 cells using anti-Aspartate Aminotransferase/GOT1 antibody (M04085-1). Overlay histogram showing HepG2 cells stained with M04085-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Aspartate Aminotransferase/GOT1 Antibody (M04085-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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

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