

Mouse anti-Human GOT2 Monoclonal Antibody | anti-GOT2 antibody

GOT2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48165	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

GOT2; Monoclonal Antibody; GOT2 antibody; Aspartate aminotransferase 2 mitochondrial; Aspartate aminotransferase 2; mitochondrial; KAT4; KATIV; mitAAT; anti-GOT2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG3, k
Clone Number	AT8B11
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (determined by BCA assay) (varies by lot)
Sequence Length	430
Applicable Applications for anti-GOT2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human GOT2 (30-430aa) purified from E Coli.
Usage	The antibody has been tested by ELISA, Western blot, ICC/IF and FC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometry analysis of GOT2 in HepG2 cell line, staining at 2-5ug for 1x10⁶cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



IF (Immunofluorescence)

ICC/IF analysis of GOT2 in HeLa cells. The cell was stained with AAA48165 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



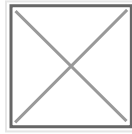
WB (Western Blot)

The recombinant proteins (20ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Human GOT1 Lane 2.: Recombinant Human GOT2



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: Balb/3T3 cell lysate



WB (Western Blot)

The recombinant human GOT2 (50ng), cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GOT2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: GOT2 Recombinant protein Lane 2.: Ramos cell lysate Lane 3.: 293T cell lysate Lane 4.: Liver tissue lysate

ADDITIONAL INFORMATION

Related Product Information for anti-GOT2 antibody	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and inner-membrane mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. Also, GOT2 is a major participant in the malate-aspartate shuttle, which is a passage from the cytosol to the mitochondria. The two enzymes are homodimeric and show close homology. GOT2 has been seen to have a role in cell proliferation, especially in terms of tumor growth.
Product Categories/Family for anti-GOT2 antibody	Metabolism
References	Yang H., et al. (2015) The EMBO journal. 34 (8): 1110-1125.; Guidetti P., et al. (2007) Journal of neurochemistry. 102 (1): 103-111.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73486658
NCBI GeneID	2806
NCBI Accession #	NP_002071
NCBI GenBank Nucleotide #	NM_002080.3
UniProt Accession #	P00505 ; Q53FL3 ; Q9BWA3 ; B4DJA6 ; E7ERW2
Molecular Weight	43,030 Da
NCBI Official Full Name	aspartate aminotransferase, mitochondrial isoform 1
NCBI Official Synonym Full Names	glutamic-oxaloacetic transaminase 2
NCBI Official Symbol	GOT2
NCBI Official Synonym Symbols	KAT4; KATIV; KYAT4; mitAAT
NCBI Protein Information	aspartate aminotransferase, mitochondrial
UniProt Protein Name	Aspartate aminotransferase, mitochondrial
UniProt Gene Name	GOT2
UniProt Synonym Gene Names	mAspAT; FABP-1; FABPpm

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/got2-antibody-clone-at8b11-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48165>