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GOT2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8968a

Product Information

Application	FC, WB, E
Primary Accession	P00505
Other Accession	P00507, P00506, P05202, Q4R559, P00508, P12344
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Chicken, Monkey, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22986
Calculated MW	47518
Antigen Region	33-61

Additional Information

Gene ID	2806
Other Names	Aspartate aminotransferase, mitochondrial, mAspAT, Fatty acid-binding protein, FABP-1, Glutamate oxaloacetate transaminase 2, Kynurenine aminotransferase 4, Kynurenine aminotransferase IV, Kynurenine--oxoglutarate transaminase 4, Kynurenine--oxoglutarate transaminase IV, Plasma membrane-associated fatty acid-binding protein, FABPpm, Transaminase A, GOT2
Target/Specificity	This GOT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33-61 amino acids from the N-terminal region of human GOT2.
Dilution	FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GOT2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GOT2 (HGNC:4433)
Function	Catalyzes the irreversible transamination of the L-tryptophan metabolite L-kynurenine to form kynurenic acid (KA). As a member of the malate-aspartate shuttle, it has a key role in the intracellular NAD(H) redox balance. Is important for metabolite exchange between mitochondria and cytosol, and for amino acid metabolism. Facilitates cellular uptake of long-chain free fatty acids.
Cellular Location	Mitochondrion matrix. Cell membrane. Note=Exposure to alcohol promotes translocation to the cell membrane.

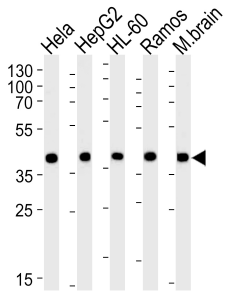
Background

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. The two enzymes are homodimeric and show close homology.

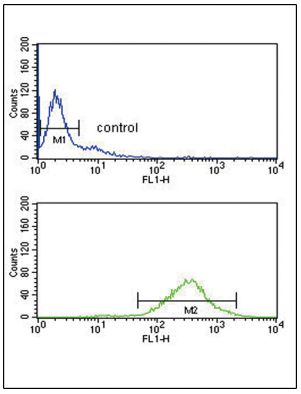
References

Schiele,F., et.al., Clin. Chem. 35 (6), 926-930 (1989)
Watazu,Y., et.al., Clin. Chem. 36 (4), 687-689 (1990)

Images



Western blot analysis of lysates from Hela, HepG2, HL-60, Ramos, mouse brain cell line (from left to right), using GOT2 Antibody (N-term)(Cat. #AP8968a). AP8968a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



GOT2 Antibody (N-term) (Cat. #AP8968a) flow cytometry analysis of Ramos cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.