

GOT2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1357a**Specification**

GOT2 Antibody - Product Information

Application	WB, IF, IHC
Primary Accession	P00505
Reactivity	Human, Mouse, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	47kDa KDa

Description

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.

Immunogen

Purified recombinant fragment of human GOT2 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

GOT2 Antibody - Additional Information

Gene ID 2806

Other Names

Aspartate aminotransferase, mitochondrial, mAspAT, 2.6.1.1, 2.6.1.7, 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

Dilution

WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
IHC~~1:200~~1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GOT2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GOT2 Antibody - 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.

GOT2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GOT2 Antibody - Images

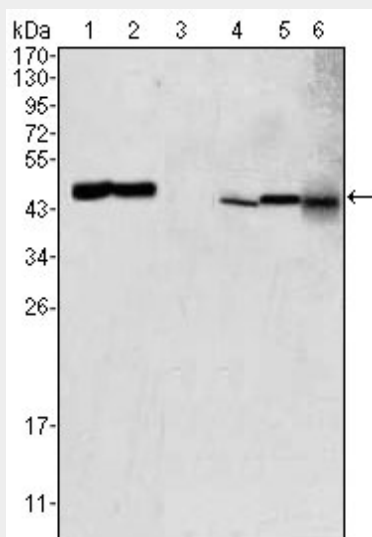


Figure 1: Western blot analysis using GOT2 mouse mAb against HEK293 (1), PC-12 (2), HL-60 (3), BCBL-1 (4), HepG2 (5) and NIH/3T3 (6) cell lysate.

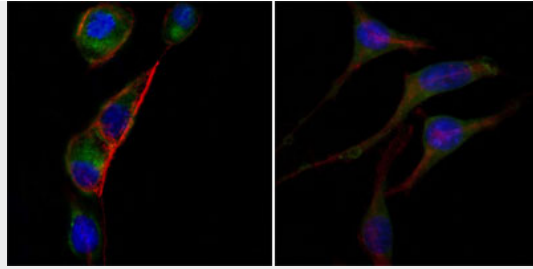


Figure 2: Immunofluorescence analysis of PC-3 (left) and SK-BR-3 (right) cells using anti-GOT2 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

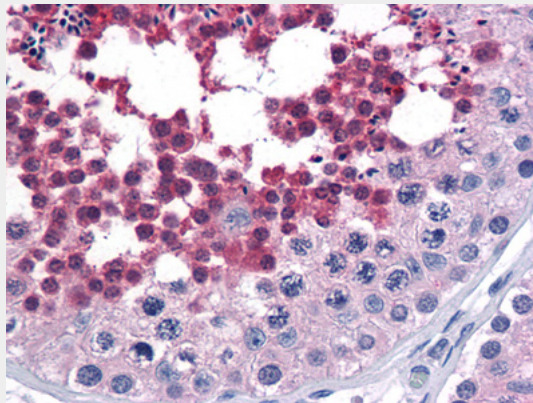


Figure 2: Immunohistochemical analysis of paraffin-embedded human Testis tissues using anti-CDC25C mouse mAb

GOT2 Antibody - References

1. Hepatology. 1998 Apr;27(4):1064-74.
2. Cell. 2005 Sep 23;122(6):957-68.
3. Psychiatr Genet. 2007 Oct;17(5):314.