

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

**Specification**

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**GOT2 Antibody - Product Information**

Application	<b>WB, IF, IHC</b>
Primary Accession	<a href="#">P00505</a>
Reactivity	<b>Human, Mouse, Rat, Monkey</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>47kDa KDa</b>

**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

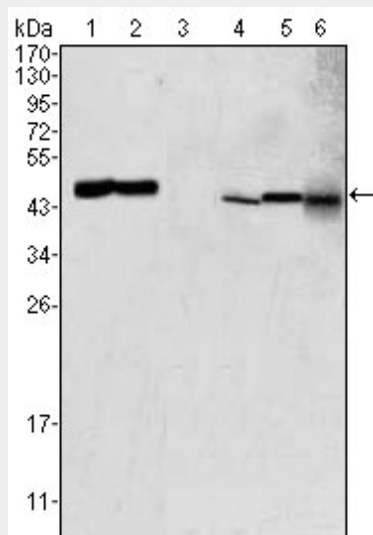


Figure 1: Western blot analysis using GOT2 mouse mAb against HEK293 (1), PC-12 (2), HL-60 (3), BCBL-1 (4), HepG2 (5) and NIH/3T3 (6) cell lysate.

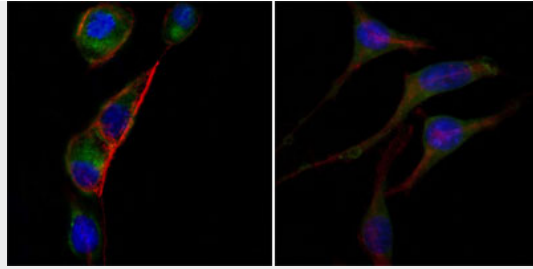


Figure 2: Immunofluorescence analysis of PC-3 (left) and SK-BR-3 (right) cells using anti-GOT2 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

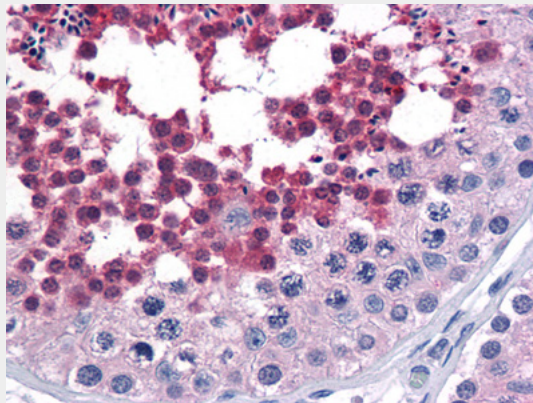


Figure 2: Immunohistochemical analysis of paraffin-embedded human Testis tissues using anti-CDC25C mouse mAb

#### **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.