10320 Camino Santa Fe, Suite G
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KD-Validated Anti-Glutamic-oxaloacetic transaminase 2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1579

Specification

KD-Validated Anti-Glutamic-oxaloacetic transaminase 2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P00505
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 48 kDa , observed , 43 kDa KDa**
Gene Name	**GOT2**
Aliases	**GOT2; Glutamic-Oxaloacetic Transaminase 2; KYAT4; Kynurenine Aminotransferase IV; MAspAT; KATIV; KAT4; Plasma Membrane-Associated Fatty Acid-Binding Protein; Glutamic-Oxaloacetic Transaminase 2, Mitochondrial; Aspartate Aminotransferase, Mitochondrial; Kynurenine--Oxoglutarate Transaminase IV; Kynurenine--Oxoglutarate Transaminase 4; Glutamate Oxaloacetate Transaminase 2; Kynurenine Aminotransferase 4; Aspartate Aminotransferase 2; Fatty Acid-Binding Protein; Aspartate Transaminase 2; Transaminase A; EC 2.6.1.1; MitAAT; FABP-1; FABPpm; Glutamic-Oxaloacetic Transaminase 2, Mitochondrial (Aspartate Aminotransferase 2); EC 2.6.1.7; EC 2.6.1; MITAAT; DEE82**
Immunogen	**A synthesized peptide derived from human GOT2**

KD-Validated Anti-Glutamic-oxaloacetic transaminase 2 Rabbit Monoclonal 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 (HGNC:4433)

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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.

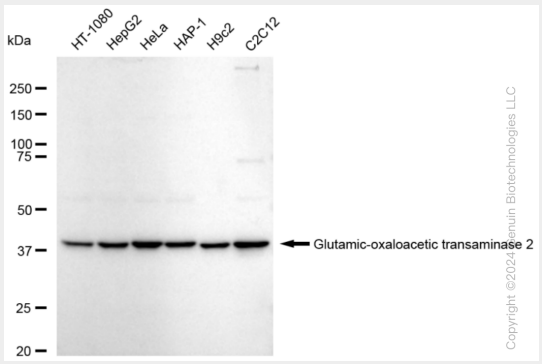
Cellular Location
Mitochondrion matrix. Cell membrane. Note=Exposure to alcohol promotes translocation to the cell membrane.

KD-Validated Anti-Glutamic-oxaloacetic transaminase 2 Rabbit Monoclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-Glutamic-oxaloacetic transaminase 2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Glutamic-oxaloacetic transaminase 2 antibody (Cat#AGI1579). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Glutamic-oxaloacetic transaminase 2 antibody (Cat#AGI1579, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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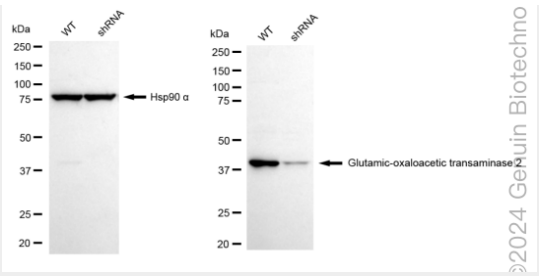
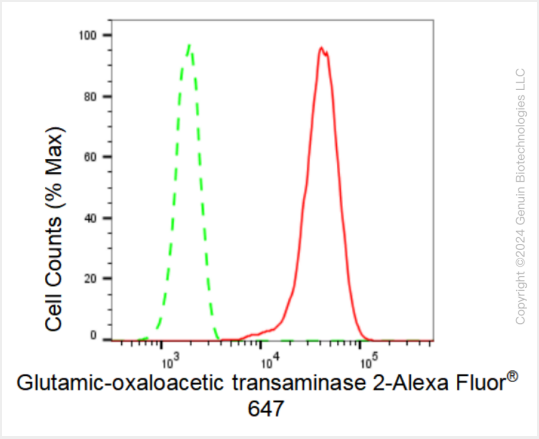


Western blotting analysis using anti-Glutamic-oxaloacetic transaminase 2 antibody (Cat#AGI1579). Glutamic-oxaloacetic transaminase 2 expression in wild type (WT) and Glutamic-oxaloacetic transaminase 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Glutamic-oxaloacetic transaminase 2 antibody (Cat#AGI1579, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Glutamic-oxaloacetic transaminase 2 expression in HepG2 cells using Glutamic-oxaloacetic transaminase 2 antibody (Cat#AGI1579, 1:2,000). Green, isotype control; red, Glutamic-oxaloacetic transaminase 2.