

Product Name: KD-Validated Glutamic-Oxaloacetic Transaminase 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01072

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 46.2kDa

Antigen Information

Gene Name	GOT1 GOT1; Glutamic-Oxaloacetic Transaminase 1; Glutamate Oxaloacetate Transaminase 1; AST1; SGOT; AST; Glutamic-Oxaloacetic Transaminase 1, Soluble; Aspartate Aminotransferase, Cytoplasmic; Cysteine Aminotransferase, Cytoplasmic; Cysteine Transaminase, Cytoplasmic;
Alternative Names	Aspartate Aminotransferase 1; Aspartate Transaminase 1; Transaminase A; EC 2.6.1.1; CAspAT; CCAT; Glutamic-Oxaloacetic Transaminase 1, Soluble (Aspartate Aminotransferase 1); Testis Secretory Sperm-Binding Protein Li 196a; Growth-Inhibiting Protein 18; EC 2.6.1.3; ASTQTL1; GIG18
Gene ID	2805.0
SwissProt ID	P17174

Immunogen

A synthesized peptide derived from human Aspartate Aminotransferase

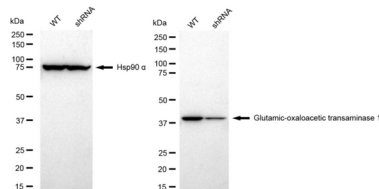
Background

Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and 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. [provided by RefSeq, Jul 2008]

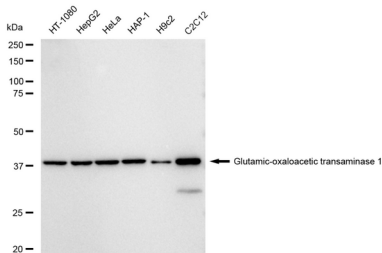
Research Area

Signal Transduction,Cancer,Metabolism

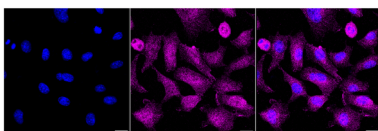
Image Data



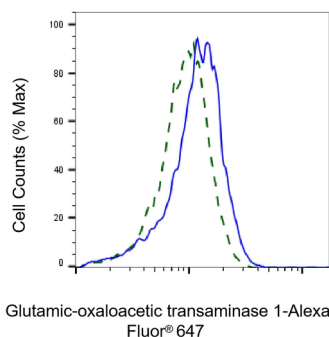
Western blotting analysis using glutamic-oxaloacetic transaminase 1 antibody (KVA01072). Glutamic-oxaloacetic transaminase 1 expression in wild type (WT) and glutamic-oxaloacetic transaminase 1 (GOT1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with glutamic-oxaloacetic transaminase 1 antibody (KVA01072, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



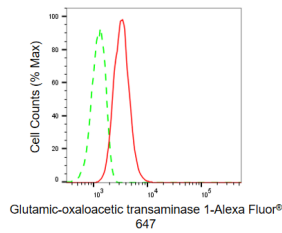
Western blotting analysis using Glutamic-oxaloacetic transaminase 1 antibody (KVA01072). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Glutamic-oxaloacetic transaminase 1 antibody (KVA01072, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with glutamic-oxaloacetic transaminase 1 antibody (KVA01072, 1:1,000). Nuclei were stained blue with DAPI; Glutamic-oxaloacetic transaminase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of Glutamic-oxaloacetic transaminase 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Glutamic-oxaloacetic transaminase 1 antibody (KVA01072, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Glutamic-oxaloacetic transaminase 1 expression in C2C12 cells using Glutamic-oxaloacetic transaminase 1 antibody (KVA01072, 1:2,000). Green, isotype control; red, Glutamic-oxaloacetic transaminase 1.