

ARG57174 anti-Aspartate Aminotransferase antibody [3G11]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3G11] recognizes Aspartate Aminotransferase
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	3G11
Isotype	IgG2a, kappa
Target Name	Aspartate Aminotransferase
Species	Human
Immunogen	Recombinant fragment around aa. 1-413 of Human Aspartate Aminotransferase
Conjugation	Un-conjugated
Alternate Names	Cysteine transaminase, cytoplasmic; cAspAT; GIG18; Glutamate oxaloacetate transaminase 1; cCAT; EC 2.6.1.3; Cysteine aminotransferase, cytoplasmic; ASTQTL1; AST1; EC 2.6.1.1; Transaminase A; Aspartate aminotransferase, cytoplasmic

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

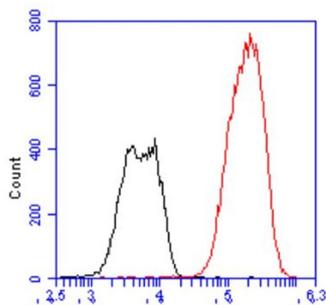
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Database links	GeneID: 2805 Human Swiss-port # P17174 Human
Gene Symbol	GOT1
Gene Full Name	glutamic-oxaloacetic transaminase 1, soluble
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]
Function	Biosynthesis of L-glutamate from L-aspartate or L-cysteine. Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H ₂ S via the action of 3-mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain. [UniProt]
Calculated Mw	46 kDa

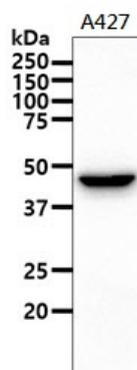
Images



Alexa 488-anti-Aspartate Aminotransferase antibody

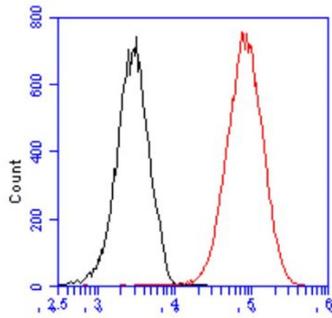
ARG57174 anti-Aspartate Aminotransferase antibody [3G11] FACS image

Flow Cytometry: Hep3B cell line stained with ARG57174 anti-Aspartate Aminotransferase antibody [3G11] at 2-5 µg for 1x10⁶ cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).



ARG57174 anti-Aspartate Aminotransferase antibody [3G11] WB image

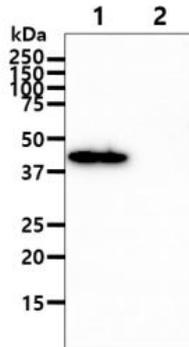
Western blot: 40 µg of A427 cell lysate stained with ARG57174 anti-Aspartate Aminotransferase antibody [3G11] at 1:1000.



Alexa 488-anti-Aspartate Aminotransferase antibody

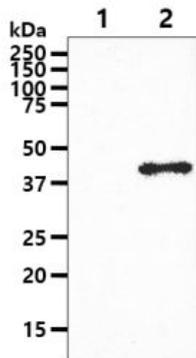
ARG57174 anti-Aspartate Aminotransferase antibody [3G11] FACS image

Flow Cytometry: HeLa cell line stained with ARG57174 anti-Aspartate Aminotransferase antibody [3G11] at 2-5 μg for 1×10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).



ARG57174 anti-Aspartate Aminotransferase antibody [3G11] WB image

Western blot: 100 ng of 1) Recombinant Human GOT1 protein, and 2) Recombinant Human GOT2 protein stained with ARG57174 anti-Aspartate Aminotransferase antibody [3G11] at 1:1000.



ARG57174 anti-Aspartate Aminotransferase antibody [3G11] WB image

Western blot: 10 μg of 1) 293T, and 2) GOT1 Transfected 293T cell lysate stained with ARG57174 anti-Aspartate Aminotransferase antibody [3G11] at 1:1000.