

ARG57061 anti-ALDH5A1 antibody [17F5]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [17F5] recognizes ALDH5A1
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	17F5
Isotype	IgG2a, kappa
Target Name	ALDH5A1
Species	Human
Immunogen	Recombinant fragment around aa. 48-535 of Human ALDH5A1.
Conjugation	Un-conjugated
Alternate Names	SSDH; SSADH; NAD; +; Aldehyde dehydrogenase family 5 member A1; EC 1.2.1.24; Succinate-semialdehyde dehydrogenase, mitochondrial

Application Instructions

Application table	Application	Dilution
	ICC/IF	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.	

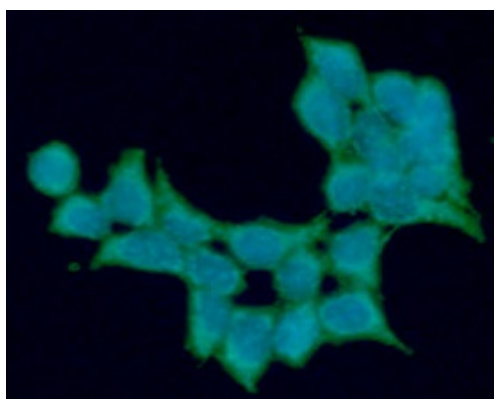
Properties

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.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 7915 Human Swiss-port # P51649 Human
Gene Symbol	ALDH5A1
Gene Full Name	aldehyde dehydrogenase 5 family, member A1
Background	This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
Function	Catalyzes one step in the degradation of the inhibitory neurotransmitter gamma-aminobutyric acid (GABA). [UniProt]
Calculated Mw	57 kDa

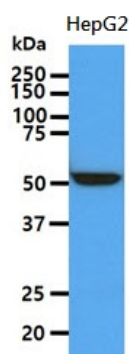
Images



ARG57061 anti-ALDH5A1 antibody [17F5] ICC/IF image

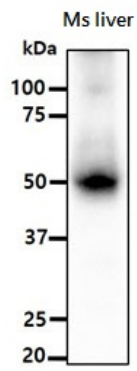
Immunofluorescence: 293T cell line stained with ARG57061 anti-ALDH5A1 antibody [17F5] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57061 anti-ALDH5A1 antibody [17F5] WB image

Western blot: 40 µg of HepG2 cell lysate stained with ARG57061 anti-ALDH5A1 antibody [17F5] at 1:1000.



ARG57061 anti-ALDH5A1 antibody [17F5] WB image

Western blot: 40 µg of Mouse liver tissue extract stained with ARG57061 anti-ALDH5A1 antibody [17F5] at 1:1000.