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Anti-ALDH7A1 Rabbit Monoclonal Antibody

Catalog # ABO16327

Product Information

Application	WB, IHC
Primary Accession	P49419
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-ALDH7A1 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human.

Additional Information

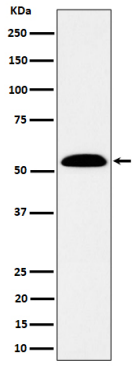
Gene ID	501
Other Names	Alpha-aminoadipic semialdehyde dehydrogenase, Alpha-AASA dehydrogenase, 1.2.1.31, Aldehyde dehydrogenase family 7 member A1, 1.2.1.3, Antiquitin-1, Betaine aldehyde dehydrogenase, 1.2.1.8, Delta1-piperideine-6-carboxylate dehydrogenase, P6c dehydrogenase, ALDH7A1 (HGNC:877), ATQ1
Calculated MW	58487
Application Details	WB 1:500-1:2000 IHC 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 28A63
Immunogen	A synthesized peptide derived from human ALDH7A1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	ALDH7A1 {ECO:0000303|PubMed:21338592, ECO:0000312|HGNC:HGNC:877}

Function	Aldehyde dehydrogenase enzyme that mediates important protective effects (PubMed:16491085, PubMed:20207735, PubMed:20554659, PubMed:21338592, PubMed:25554827, PubMed:31302938, PubMed:31652343, PubMed:38604394, PubMed:40233740). Protects cells from oxidative stress by metabolizing a number of lipid peroxidation-derived aldehydes (PubMed:16491085, PubMed:20207735, PubMed:21338592, PubMed:40233740). Involved in cellular defense against hyperosmotic stress by metabolizing betaine aldehyde to betaine, an important cellular osmolyte and methyl donor (PubMed:20207735).
Cellular Location	[Isoform 1]: Mitochondrion
Tissue Location	Abundant in hepatoma cells and fetal cochlea, ovary, eye, heart, adrenal gland, liver and kidney. Low levels present in adult peripheral blood leukocytes and fetal brain, thymus, spleen, skeletal muscle, lung and tongue.

Images



Western blot analysis of ALDH7A1 expression in SW480 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.