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LDHA Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13542b

Product Information

Application	IHC-P-Leica, IF, WB, E
Primary Accession	P00338
Other Accession	Q9BE24, NP_005557.1, NP_001158887.1
Reactivity	Human, Rat, Mouse
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33661
Calculated MW	36689
Antigen Region	204-232

Additional Information

Gene ID	3939
Other Names	L-lactate dehydrogenase A chain, LDH-A, Cell proliferation-inducing gene 19 protein, LDH muscle subunit, LDH-M, Renal carcinoma antigen NY-REN-59, LDHA
Target/Specificity	This LDHA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the C-terminal region of human LDHA.
Dilution	IHC-P-Leica~~1:500 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LDHA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LDHA (HGNC:6535)

Function	Interconverts simultaneously and stereospecifically pyruvate and lactate with concomitant interconversion of NADH and NAD(+).
Cellular Location	Cytoplasm.
Tissue Location	Predominantly expressed in anaerobic tissues such as skeletal muscle and liver.

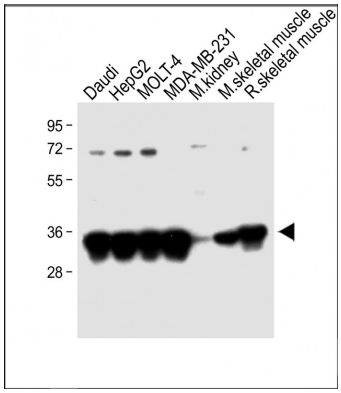
Background

The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene.

References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Zhu, X., et al. Genet. Epidemiol. 34(2):171-187(2010)
Zhuang, L., et al. Mod. Pathol. 23(1):45-53(2010)
Zhao, Y.H., et al. Oncogene 28(42):3689-3701(2009)
Koukourakis, M.I., et al. Oncology 77(5):285-292(2009)

Images



All lanes : Anti-LDHA Antibody (C-term) at 1:2000 dilution Lane 1: Daudi whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: MOLT-4 whole cell lysate Lane 4: MDA-MB-231 whole cell lysate Lane 5: Mouse kidney lysate Lane 6: Mouse skeletal muscle lysate Lane 7: Rat skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.