

DNASE1L3 Monoclonal antibody

Catalog Number: 67041-1-Ig 1 Publications

Basic Information

Catalog Number:	67041-1-Ig	GenBank Accession Number:	BC015831	Purification Method:	Protein A purification
Size:	2100 µg/ml	GeneID (NCBI):	1776	CloneNo.:	1A4D4
Source:	Mouse	UNIPROT ID:	Q13609	Recommended Dilutions:	WB 1:500-1:2000 IHC 1:50-1:500
Isotype:	IgG2a	Full Name:	deoxyribonuclease I-like 3		
Immunogen Catalog Number:	AG28187	Calculated MW:	305 aa, 36 kDa		
		Observed MW:	33-38 kDa		

Applications

Tested Applications:	IHC, WB, ELISA	Positive Controls:	
Cited Applications:	WB	WB :	HEK-293 cells, U2OS cells, Daudi cells, A431 cells, LnCaP cells, Jurkat cells, K-562 cells, HepG2 cells, Raji cells
Species Specificity:	Human, mouse	IHC :	mouse liver tissue, human spleen tissue
Cited Species:	human		
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			

Background Information

Deoxyribonuclease 1-like 3 (DNASE1L3, DNase gamma, DNase Y, LS-DNase) is member of a DNASE1 protein family that is identified by similar biochemical properties such as Ca²⁺/Mg²⁺- dependency and an optimal pH of about 7.0 as well as by a high similarity in their nucleic acid and amino acid sequences (PMID:157967140). It is an endonuclease and cleaves double-stranded DNA (and single-stranded DNA) producing 3' -OH/5' -P ends, which is Ca²⁺/Mg²⁺-dependent and inhibited by Zn²⁺, but not by monomeric actin (PMID:9665719). In addition, it translocates from the endoplasmic reticulum to the nucleus during apoptosis (PMID: 23229555). DNASE1L3 can be located either in the cytoplasm or in the nucleus.

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Liu	34157681	Aging (Albany NY)	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

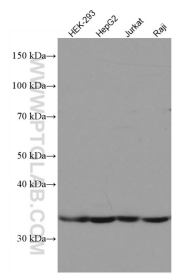
For technical support and original validation data for this product please contact:

T: 4006900926

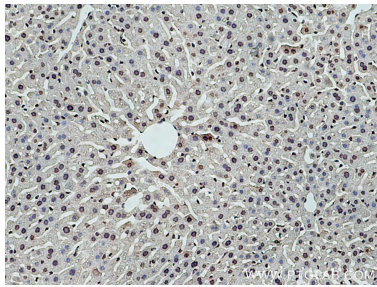
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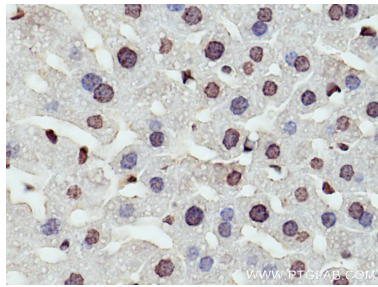
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67041-1-Ig (DNASE1L3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 67041-1-Ig (DNASE1L3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 67041-1-Ig (DNASE1L3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).