

For Research Use Only

CoraLite®594-conjugated DNASE1L3 Monoclonal antibody



Catalog Number:CL594-67041

Basic Information

Catalog Number: CL594-67041	GenBank Accession Number: BC015831	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1776	CloneNo.: 1A4D4
Source: Mouse	Full Name: deoxyribonuclease I-like 3	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Calculated MW: 305 aa, 36 kDa	Excitation/Emission maxima wavelengths: 594 nm / 615 nm
Immunogen Catalog Number: AG28187	Observed MW: 33-38 kDa	

Applications

Tested Applications: FC (Intra), IF	Positive Controls: IF : HepG2 cells,
Species Specificity: Human, mouse	

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:15796714]. 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 has been suggested to be involved in apoptotic DNA fragmentation of thymocytes' neuronal PC12 cells, C2C12 myoblasts and of cell lines expressing the recombinant nuclease [PMID: 7957253, 9307016]

Storage

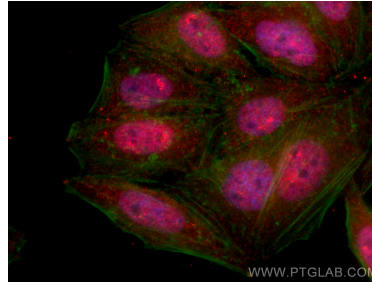
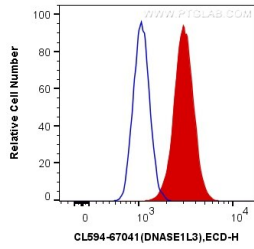
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human DNASE1L3 (CL594-67041, Clone:1A4D4) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL594-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594 DNASE1L3 antibody (CL594-67041, Clone: 1A4D4) at dilution of 1:200, CL488-Phalloidin (green).