For Research Use Only

CoraLite®594-conjugated DNASE1L3 Monoclonal antibody



Catalog Number: CL594-67041

Basic Information

Catalog Number: GenBank Accession Number: CL594-67041 BC015831

 CL594-67041
 BC015831

 Size:
 GeneID (NCBI):

 1000 µg/ml
 1776

 Source:
 UNIPROT ID:

 Mouse
 Q13609

 Isotype:
 Full Name:

IgG2a deoxyribonuclease I-like 3

Immunogen Catalog Number:Calculated MW:AG28187305 aa, 36 kDa

Observed MW: 33-38 kDa Purification Method:

Protein A purification CloneNo.:

Recommended Dilutions: IF/ICC 1:50-1:500

Excitation/Emission maxima

wavelengths: 588 nm / 604 nm

1A4D4

Applications

Tested Applications: IF/ICC, FC (Intra) Species Specificity:

human, mouse

Positive Controls:

IF/ICC : HepG2 cells,

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

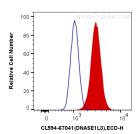
Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer:

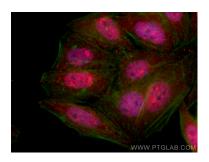
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



1X10^6 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 DNASE113 antibody (CL594-67041, Clone: 1A4D4) at dilution of 1:200, CL488-Phalloidin (green).