

**DNASE1L3 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13885a****Specification**

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**DNASE1L3 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q13609](#)**DNASE1L3 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 1776**Other Names**

Deoxyribonuclease gamma, DNase gamma, 3121-, DNase I homolog protein DHP2, Deoxyribonuclease I-like 3, DNase I-like 3, Liver and spleen DNase, LS-DNase, LSD, DNASE1L3, DHP2, DNAS1L3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13885a was selected from the N-term region of DNASE1L3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DNASE1L3 Antibody (N-term) Blocking peptide - Protein Information****Name** DNASE1L3 ([HGNC:2959](#))**Synonyms** DHP2, DNAS1L3**Function**

Has DNA hydrolytic activity. Is capable of both single- and double-stranded DNA cleavage, producing DNA fragments with 3'-OH ends (By similarity). Can cleave chromatin to nucleosomal units and cleaves nucleosomal and liposome-coated DNA (PubMed:<a href="http://www.uniprot.org/citations/9070308" target="\_blank">9070308</a>, PubMed:<a href="http://www.uniprot.org/citations/9714828" target="\_blank">9714828</a>, PubMed:<a href="http://www.uniprot.org/citations/14646506" target="\_blank">14646506</a>, PubMed:<a href="http://www.uniprot.org/citations/10807908" target="\_blank">10807908</a>, PubMed:<a href="http://www.uniprot.org/citations/27293190" target="\_blank">27293190</a>). Acts in internucleosomal DNA fragmentation (INDF) during apoptosis and necrosis (PubMed:<a

href="http://www.uniprot.org/citations/23229555" target="\_blank">23229555</a>, PubMed:<a href="http://www.uniprot.org/citations/24312463" target="\_blank">24312463</a>). The role in apoptosis includes myogenic and neuronal differentiation, and BCR-mediated clonal deletion of self-reactive B cells (By similarity). Is active on chromatin in apoptotic cell-derived membrane-coated microparticles and thus suppresses anti-DNA autoimmunity (PubMed:<a href="http://www.uniprot.org/citations/27293190" target="\_blank">27293190</a>). Together with DNASE1, plays a key role in degrading neutrophil extracellular traps (NETs) (By similarity). NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation (By similarity). Degradation of intravascular NETs by DNASE1 and DNASE1L3 is required to prevent formation of clots that obstruct blood vessels and cause organ damage following inflammation (By similarity).

#### **Cellular Location**

Nucleus. Endoplasmic reticulum. Secreted Note=Translocates from the endoplasmic reticulum to the nucleus during apoptosis (PubMed:23229555). Contradictory reports exist about the subcellular localization under normal physiological conditions. Under conditions of cell death, may diffuse and/or be actively transported to the nucleus. {ECO:0000269|PubMed:23229555, ECO:0000305}

#### **Tissue Location**

Liver and spleen.

### **DNASE1L3 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **DNASE1L3 Antibody (N-term) Blocking peptide - Images**

### **DNASE1L3 Antibody (N-term) Blocking peptide - Background**

This gene encodes a member of the DNase family. The protein hydrolyzes DNA, is not inhibited by actin, and mediates the breakdown of DNA during apoptosis. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.

### **DNASE1L3 Antibody (N-term) Blocking peptide - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Ueki, M., et al. Clin. Chim. Acta 407 (1-2), 20-24 (2009) :Mizuta, R., et al. Biomed. Res. 30(3):165-170(2009) Boulares, H., et al. Biochem. Biophys. Res. Commun. 341(2):653-662(2006) Okamoto, M., et al. Biochem. Biophys. Res. Commun. 327(1):76-83(2005)