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DNASE2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8894c

Specification

DNASE2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O00115

DNASE2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1777

Other Names
Deoxyribonuclease-2-alpha, Acid DNase, Deoxyribonuclease II alpha, DNase II alpha, Lysosomal DNase II, R31240_2, DNASE2, DNASE2A, DNL2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8894c was selected from the Center region of human DNASE2. 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.

DNASE2 Antibody (Center) Blocking Peptide - Protein Information

Name DNASE2

Synonyms DNASE2A, DNL2

Function
Hydrolyzes DNA under acidic conditions with a preference for double-stranded DNA. Plays a major role in the clearance of nucleic acids generated through apoptosis, hence preventing autoinflammation (PubMed:29259162, PubMed:31775019). Necessary for proper fetal development and for definitive erythropoiesis in fetal liver and bone marrow, where it degrades nuclear DNA expelled from erythroid precursor cells (PubMed:29259162).

Cellular Location
Lysosome.

Tissue Location
Expressed in monocytes/macrophages (at protein level).

DNASE2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

DNASE2 Antibody (Center) Blocking Peptide - Images

DNASE2 Antibody (Center) Blocking Peptide - Background

DNASE2 is a member of the DNase family. The protein, located in the lysosome, hydrolyzes DNA under acidic conditions and mediates the breakdown of DNA during erythropoiesis and apoptosis.

DNASE2 Antibody (Center) Blocking Peptide - References

Yasuda,T., et.al., J. Biol. Chem. 273 (5), 2610-2616 (1998)