

DNASE2 / DNase II Antibody (aa347-360)
Rabbit Polyclonal Antibody
Catalog # ALS11451**Specification**

DNASE2 / DNase II Antibody (aa347-360) - Product Information

Application	WB, IHC-P
Primary Accession	O00115
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

DNASE2 / DNase II Antibody (aa347-360) - Additional Information**Gene ID** 1777**Other Names**

Deoxyribonuclease-2-alpha, 3.1.22.1, Acid DNase, Deoxyribonuclease II alpha, DNase II alpha, Lysosomal DNase II, R31240_2, DNASE2, DNASE2A, DNL2

Target/Specificity

peptide corresponding to amino acids 347 to 360 of human DNase II precursor (2-4)

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

DNASE2 / DNase II Antibody (aa347-360) is for research use only and not for use in diagnostic or therapeutic procedures.

DNASE2 / DNase II Antibody (aa347-360) - 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.

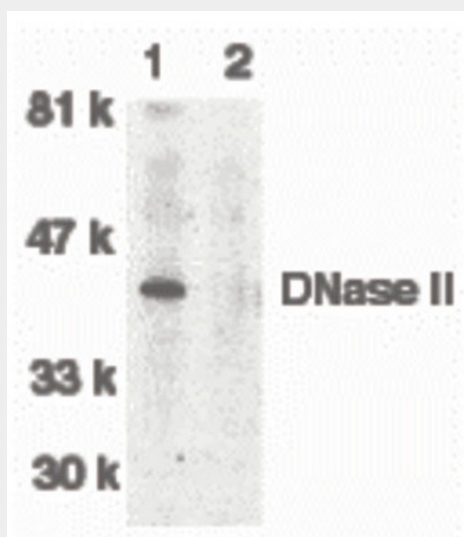
Tissue Location

Expressed in monocytes/macrophages (at protein level).

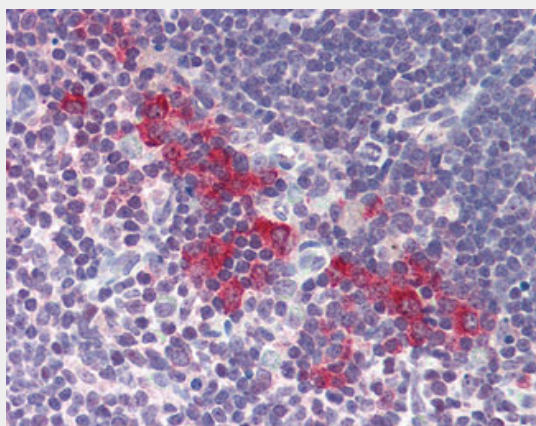
DNASE2 / DNase II Antibody (aa347-360) - Protocols

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

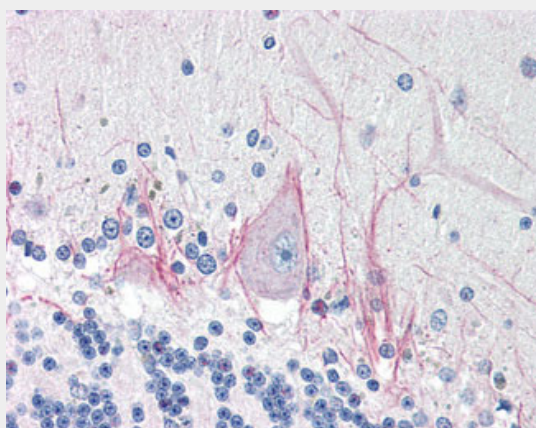
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DNASE2 / DNase II Antibody (aa347-360) - Images

Western blot of DNase II in human spleen tissue lysate in the absence (lane 1) or presence (lane...)



Anti-DNASE2 / DNase II antibody IHC of human thymus.



Anti-DNASE2 / DNase II antibody IHC of human brain, cerebellum.

DNASE2 / DNase II Antibody (aa347-360) - Background

Hydrolyzes DNA under acidic conditions with a preference for double-stranded DNA. Plays a major role in the degradation of nuclear DNA in cellular apoptosis during development. Necessary for proper fetal development and for definitive erythropoiesis in fetal liver, where it degrades nuclear DNA expelled from erythroid precursor cells.

DNASE2 / DNase II Antibody (aa347-360) - References

- Yasuda T.,et al.Ann. Hum. Genet. 62:299-305(1998).
Shiokawa D.,et al.Biochem. Biophys. Res. Commun. 247:864-869(1998).
Baker K.P.,et al.Gene 215:281-289(1998).
Krieser R.J.,et al.J. Biol. Chem. 273:30909-30914(1998).
Yasuda T.,et al.J. Biol. Chem. 273:2610-2616(1998).