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Datasheet for 600-401-AW6

DNase II Antibody

Overview

Description:	Anti-DNase II (RABBIT) Antibody - 600-401-AW6
Item No.:	600-401-AW6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of caspase family, caspase activated DNase, and several novel proteins including AIF and Acinus. DNase II causes both chromatin condensation and DNA fragmentation. The genes encoding human, porcine, and murine DNase II have been cloned. The DNase II gene encodes a 40 kDa proenzyme. The mature enzyme consists of two non-identical subunits, the 32 kDa (alpha) and 12 kDa (beta) chains, generated by proteolytic processing. Overexpression of DNase II induces chromatin condensation. DNase II is ubiquitously expressed in human tissues.
Synonyms:	DNase II Antibody, DNL, DNL2, DNASE2A, Deoxyribonuclease-2-alpha, Acid DNase, DNase II alpha
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DNASE2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-DNase II antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid peptide near the C-terminus of human DNase II.

Purity/Specificity:	Anti-DNase II Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with DNase II from other sources has not been determined.
Relevant Links:	• UniProtKB - O00115 • GeneID - 1777 • NCBI - AF047016

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DNase II Antibody has been tested for use in ELISA, Western Blotting, immunofluorescence, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 40 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
IF:	5 µg/mL
IHC:	5 µg/mL
WB:	0.5 µg/mL

Formulation

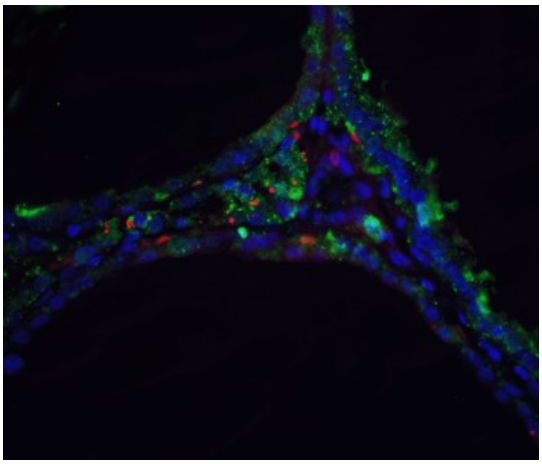
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

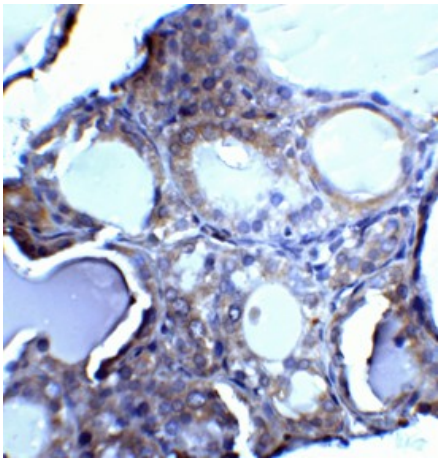
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

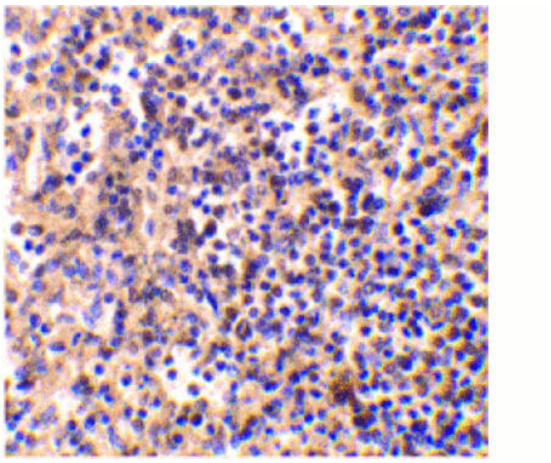
Images



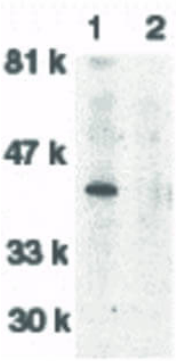
Immunofluorescence Microscopy
Immunofluorescence of DNase II in human spleen tissue with DNase II antibody at 5 µg/ml. Green: DNase II antibody. Red: Phylloidin staining. Blue: DAPI staining.



Immunohistochemistry
Immunohistochemistry of DNase II in human spleen tissue with DNase II antibody at 5 µg/ml.



Immunohistochemistry
Immunohistochemistry of DNase II antibody. Tissue: Human spleen. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DNase II antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DNase II is lysosomal and occasionally extracellular. Staining: DNase II as precipitated light brown signal with hematoxylin blue nuclear counterstain.



Western Blot
Western Blot of DNase II antibody. Lane 1: Human spleen tissue lysate. Lane 2: Human spleen tissue lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary antibody: DNase II antibody at 1:500 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 39.6 kDa, 45 kDa for DNase II.

Disclaimer

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