10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DNASE1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5430

Specification

DNASE1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P24855
Other Accession	P00639
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=31;M=32 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

DNASE1 Antibody (Center) - Additional Information

Gene ID 1773

Antigen Region
87-121

Other Names
Deoxyribonuclease-1, Deoxyribonuclease I, DNase I, Dornase alfa, DNASE1, DNL1, DRNI

Dilution
WB~~1:1000

Target/Specificity
This DNASE1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 87-121 amino acids from the Central region of human DNASE1.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DNASE1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DNASE1 Antibody (Center) - Protein Information

Name DNASE1 (HGNC:2956)

Synonyms DNL1, DRNI

Function
Serum endocuclease secreted into body fluids by a wide variety of exocrine and endocrine organs (PubMed:2251263, PubMed:11241278, PubMed:2277032). Expressed by non-hematopoietic tissues and preferentially cleaves protein-free DNA (By similarity). Among other functions, seems to be involved in cell death by apoptosis (PubMed:11241278). Binds specifically to G-actin and blocks actin polymerization (By similarity). Together with DNASE1L3, 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
Secreted. Zymogen granule. Nucleus envelope. Note=Secretory protein, stored in zymogen granules and found in the nuclear envelope

Tissue Location
Principally in tissues of the digestive system. Highest levels found in urine, but also relatively abundant in semen and saliva

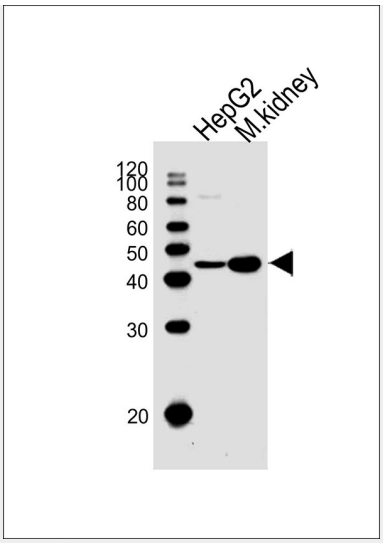
DNASE1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DNASE1 Antibody (Center) - Images

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All lanes : Anti-DNASE1 Antibody (Center) at 1:1000 dilution Lane 1: HepG2 whole cell lysates Lane 2: mouse kidney lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

DNASE1 Antibody (Center) - Background

Among other functions, seems to be involved in cell death by apoptosis. Binds specifically to G-actin and blocks actin polymerization (By similarity).

DNASE1 Antibody (Center) - References

Shak S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:9188-9192(1990).
Yasuda T.,et al.Ann. Hum. Genet. 59:1-15(1995).
Oliveri M.,et al.Eur. J. Immunol. 31:743-751(2001).
Kominato Y.,et al.FEBS J. 273:3094-3105(2006).
Martin J.,et al.Nature 432:988-994(2004).