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 # AP21123a

Product Information

Application	IHC-P-Leica, WB, E
Primary Accession	P24855
Reactivity	Human, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB49355
Calculated MW	31434

Additional Information

Gene ID	1773
Other Names	Deoxyribonuclease-1, Deoxyribonuclease I, DNase I, Dornase alfa, DNASE1, DNL1, DRNI
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.
Dilution	IHC-P-Leica~~1:500 WB~~1:2000 E~~Use at an assay dependent concentration.
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.

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:11241278, PubMed:2251263, 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

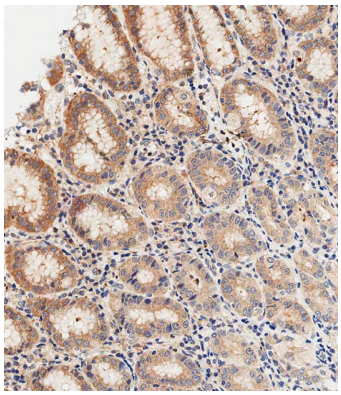
Background

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

References

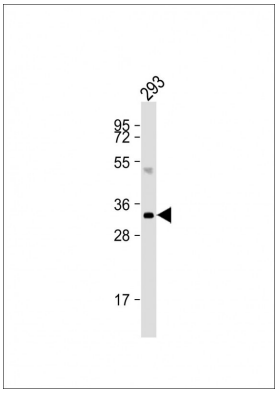
Shak S.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:9188-9192(1990).
Yasuda T.,et al.Ann. Hum. Genet. 59:1-15(1995).
Oliveri M.,et al.Eur. J. Immunol. 31:743-751(2001).
Kominato Y.,et al.FEBS J. 273:3094-3105(2006).
Martin J.,et al.Nature 432:988-994(2004).

Images



Immunohistochemical analysis of paraffin-embedded Human stomach tissue using AP21123A performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

Anti-DNASE1 Antibody (Center) at 1:1000 dilution + 293 whole cell lysate 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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.