

**DATASHEET**

**DNase I Rabbit Polyclonal Antibody**

CAT. NO. APA14226

**KEY FEATURES**

Target	DNase I	Source / Host	Rabbit
Reactivity	Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Serum endonuclease secreted into body fluids by a wide variety of exocrine and endocrine organs . Expressed by non-hematopoietic tissues and preferentially cleaves protein-free DNA . Among other functions, seems to be involved in cell death by apoptosis . Binds specifically to G-actin and blocks actin polymerization . Together with DNASE1L3, plays a key role in degrading neutrophil extracellular traps (NETs) . NETs are mainly composed of DNA fibers and are released by neutrophils to bind pathogens during inflammation . 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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to DNase I
Specificity	Recognizes endogenous levels of DNase I protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human DNase I
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 19; Observed: 36 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	DNL1; DRNI; Deoxyribonuclease-1; Deoxyribonuclease I; DNase I; Dornase alfa
Gene Symbol	DNASE1
Entrez Gene	1773(Human); 13419(Mouse); 25633(Rat)
SwissProt	P24855(Human); P49183(Mouse); P21704(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

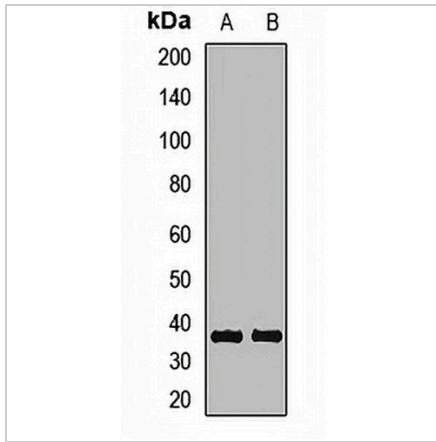
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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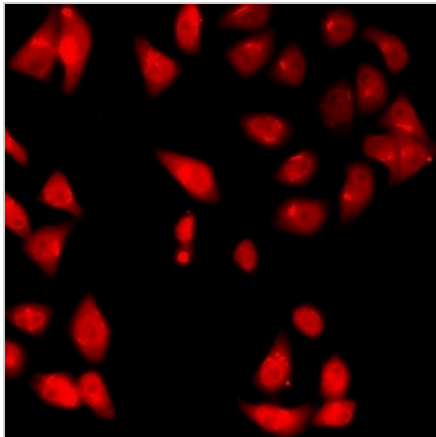
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**DATA**



Western blot analysis of DNase I expression in HT29 (A), mouse testis (B) whole cell lysates. (Predicted band size: 19; 31 kD; Observed band size: 36 kD)



Immunofluorescent analysis of DNase I staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.