

Datasheet for ABIN7540666
anti-Nuclease antibody



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Overview

Quantity:	100 µg
Target:	Nuclease
Reactivity:	Serratia marcescens
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nuclease antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Purpose:	Nuclease/NucA Antibody
Immunogen:	Anti-Nuclease/NucA was prepared by repeated immunizations with recombinant benzonase protein produced in E. coli.
Isotype:	IgG
Cross-Reactivity (Details):	This antibody will react with endonuclease from S.
Purification:	This antibody was purified from monospecific antiserum by Protein A chromatography.
Sterility:	Sterile filtered

Target Details

Target:	Nuclease
Alternative Name:	nucA (Nuclease Products)

Target Details

Background: Benzonase, Nuclease, Endonuclease, Serratia marcescens endonuclease, NucA, Nucleases are secreted by Serratia marcescens into the medium it surrounds. The enzyme is a sugar-nonspecific hydrolase, capable of cleaving both RNA and DNA in either double or single stranded form. It requires divalent cations, preferably Mg²⁺, and is functional across a broad pH range from 6 to 10 (optimal at 8-8.5) and wide temperature ranges between 35 °C and 44 °C. The ability of Serratia to secrete nuclease appears to be regulated. Bacterial cultures at differing cell densities display different kinetics and efficiencies of nuclease secretion [i.e. growth medium, growth conditions, and host cell mutations]. Anti-Nuclease/NucA Antibody is useful for researcher interested in identifying nucleic acid contamination.

UniProt: [P13717](#)

Application Details

Application Notes: ELISA_Dilution: 1:21,600 - 1:22,600
Western_Blot_Dilution: 1:1000

Comment: Anti-Nuclease/NucA has been tested by ELISA and western blot. Expect a band ~ 28 kDa in size corresponding to endonuclease by western blotting in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer: None
Preservative: 0.01 % (w/v) Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: 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.

Handling

Expiry Date: 12 months