

Datasheet for KJE-4001**AccuSignal™ Nuclease ELISA Kit****Overview**

Description:	AccuSignal™ Nuclease ELISA Kit - KJE-4001
Item No.:	KJE-4001
Size:	1 Kit
Applications:	ELISA
Range:	0.03 to 20 ng/mL
Host Species:	Rabbit

Product Details

Background:	Nucleases are secreted by <i>Serratia marcescens</i> 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 Mg ²⁺ , 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 <i>Serratia</i> 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.
Synonyms:	Benzonase, Nuclease, Endonuclease, <i>Serratia marcescens</i> endonuclease, NucA, Denarase
Host Species:	Rabbit
Clonality:	Polyclonal
Detection Kit Type:	ELISA Kit
Detection Range:	0.03 to 20 ng/mL

Target Details

Gene Name:	nucA
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Purity/Specificity:	Rockland's AccuSignal™ Nuclease ELISA Kit is an in vitro enzyme-linked immunosorbent assay designed for the quantitative detection of Nuclease/NucA in serum, plasma, and hybridoma cell supernatants. This kit contains: nuclease antibody coated 96-well strip plate, plate sealer, nuclease standard, biotinylated detection antibody, streptavidin-peroxidase conjugate, along with buffers and protocol. See protocol for details.
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Relevant Links:	• KJE-4001 Protocol
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Application Details

Tested Applications:	ELISA
Application Note:	Nuclease ELISA kit is designed for the quantitative detection of Nuclease/NucA in serum, plasma, and hybridoma cell supernatants. This kit was shown to positively detect commercially available nuclease variants, such as Benzonase, Denarase and other analogs.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Liquid and Lyophilized
Concentration:	None

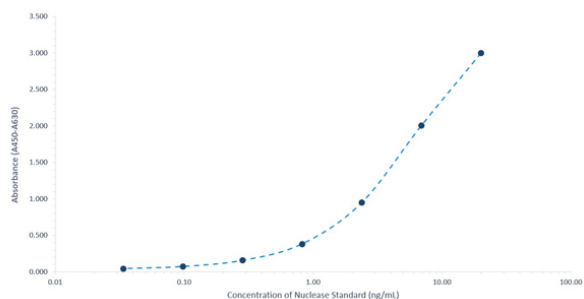
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	The kit and reagents should be stored at 2-8°C. Allow reagents to reach room temperature (18-26°C) before use and may be used until the expiration date. It is recommended to aliquot the reconstituted standard solution and store it at -20°C to avoid freeze/thaw cycles.
Expiration:	See kit insert for complete instructions.

Images

ELISA

The AccuSignal™ Nuclease ELISA Kit has a broad dynamic range that reduces the number of plates and time needed for experiments. The protein standard from the AccuSignal™ Nuclease ELISA Kit was used to prepare a standard curve from 20 to 0.03 ng/mL. The standard curve exhibits a broad range (0.03 to 20 ng/mL) and a strong goodness of fit ($r^2 \geq 0.99$).



Kit Box

Nuclease Kit and Components for ELISA



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.