Datasheet for ABIN6941357

anti-dsDNA antibody

5 Images

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Overview

Quantity:	100 µg
Target:	dsDNA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This dsDNA antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Nuclei of Burkitt's cells
Clone:	121-3
Isotype:	IgG3 kappa
Specificity:	This monoclonal antibody is part of a new panel of reagents, which recognizes subcellular organelles or compartments of human cells. These markers may be useful in identification of these organelles in cells, tissues, and biochemical preparations. This MAb recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells. This MAb produces a homogeneous staining pattern in the nucleus of normal and malignant cells.Deoxyribonucleic acid (DNA) is a long polymer of nucleotides that is held together by a backbone made of sugars and phosphate groups. It holds the genetic instructions for the development and function of living things. DNA is crucial for living organisms, and all known cellular life and some viruses

Product Details

contain DNA. In eukaryotes, DNA exists in the cell nucleus, while in prokaryotes, DNA is located in the cytoplasm. In living organisms, DNA does not usually exist as a single molecule, but instead as a tightly associated pair of molecules in the shape of a right-handed double helix. Hydrogen bonds as well as forces generated by the hydrophobic effect and pi stacking hold the two DNA strands together. During replication and transcription, portions of the helix unwind and become single stranded. Protective proteins surround these single-stranded DNA. Double stranded (ds) DNA markers are useful tools in biology research and aid in the study of DNA behavior and characteristics.

Target Details

Target:	dsDNA
Alternative Name:	Double Stranded DNA (dsDNA) (Nuclear Marker) (dsDNA Products)
Target Type:	Chemical

Application Details

Application Notes:	Positive Control: Raji, Jurkat or HeLa cells. Tonsil or Colon. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % 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,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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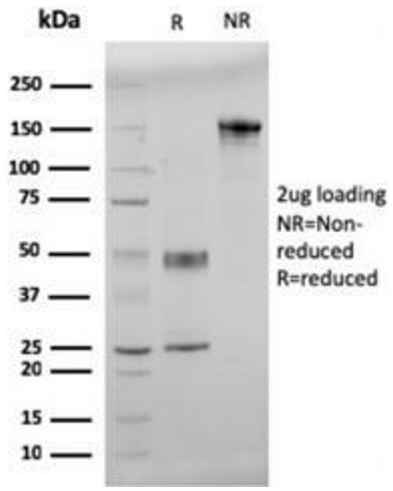
Handling

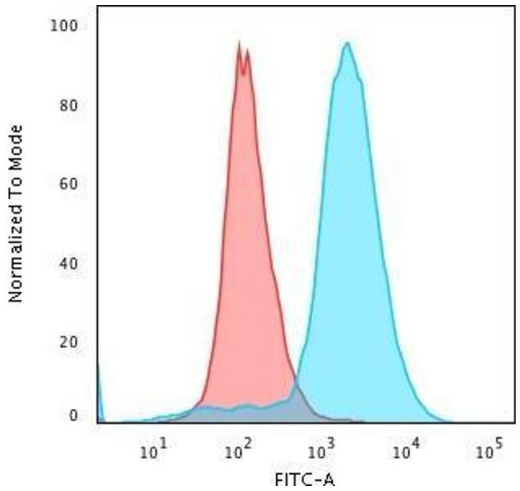
Expiry Date:	24 months

Images



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Double Stranded DNA Mouse Monoclonal Antibody (121-3). Confirmation of Purity and Integrity of Antibody.



Flow Cytometry

Image 2. Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells with Double Stranded DNA Mouse Monoclonal Antibody (121-3)followed by Goat anti-Mouse IgG-CF488 (Blue) Isotype Control (Red)

Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Double Stranded DNA Mouse Monoclonal Antibody (121-3)

Please check the product details page for more images. Overall 5 images are available for ABIN6941357.