

## Double Stranded DNA (dsDNA) (Nuclear Marker) Antibody

Mouse Monoclonal Antibody [Clone 121-3]

Catalog No	Format	Size
MSM1-945-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
MSM1-945-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
MSM1-945-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

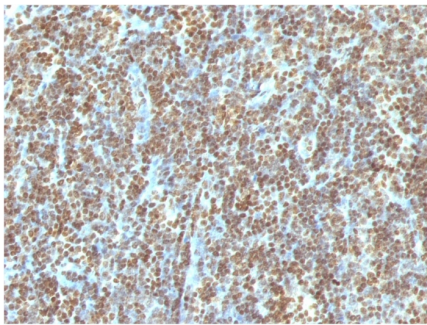
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

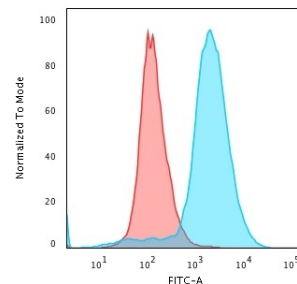
Clone	121-3
Gene Name	N/A
Immunogen	Nuclei of Burkitt's cells
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG3 / Kappa
Mol. Weight of Antigen	Not Known
Cellular Localization	N/A
Species Reactivity	Human
Positive Control	Jurkat or HeLa cells. Tonsil or Colon., Raji

\*Optimal dilution for a specific application should be determined.

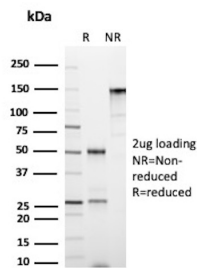
### Product Images for Double Stranded DNA (dsDNA) (Nuclear Marker) Antibody



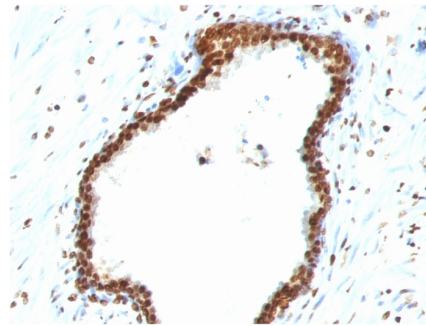
Formalin-fixed, paraffin-embedded human Tonsil stained with Double Stranded DNA Mouse Monoclonal Antibody (121-3)



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)



SDS-PAGE Analysis of Purified dsDNA Mouse Monoclonal Antibody (121-3). Confirmation of Purity and Integrity of Antibody.



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

### Specificity & Comments

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 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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

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.