

Mouse anti-Human Double Stranded DNA (dsDNA) Monoclonal Antibody | anti-dsDNA antibody

Double Stranded DNA (dsDNA) (Nuclear Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62700	Mouse	Human	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Double Stranded DNA (dsDNA); Monoclonal Antibody; Double Stranded DNA (dsDNA) (Nuclear Marker) Mouse Monoclonal Antibody; anti-dsDNA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG3, kappa
Clone Number	AE-2
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. Double Stranded deoxyribonucleic acid (ds DNA) is the genetic material of all cells and many viruses and is a polymer of nucleotides. The monomer consists of phosphorylated 2-deoxyribose N-glycosidically linked to one of four bases, adenine, cytosine, guanine or thymine. These are linked together by 3',5'-phosphodiester bridges. In the Watson-Crick double-helix model, two complementary strands are wound in a right-handed helix and held together by hydrogen bonds between complementary base pairs.
Form/Format	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.
Applicable Applications for anti-dsDNA antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Nuclear
Immunogen	Nuclei of Burkitt's cells
Positive Control	Raji, Jurkat or HeLa cells. Human tonsil or Colon.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified Double Stranded DNA Mouse Monoclonal Antibody (AE-2).
Confirmation of Purity and Integrity of Antibody.



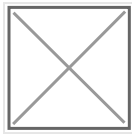
FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of paraformaldehyde-fixed Raji cells with Double Stranded DNA Mouse Monoclonal Antibody (AE-2) followed by goat anti-Mouse IgG-CF488 (Blue) Isotype Control (Red)



IF (Immunofluorescence)
Immunofluorescent staining of paraformaldehyde-fixed Raji cells with Double Stranded DNA Mouse Monoclonal Antibody (AE-2) followed by goat anti-Mouse IgG-CF488 (Green).
Counterstain is Phalloidin (red).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Double Stranded DNA Mouse Monoclonal Antibody (AE-2)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with Double Stranded DNA Mouse Monoclonal Antibody (AE-2)

ADDITIONAL INFORMATION

References	Epstein, A.L. and Clevenger, C.V., Identification of nuclear antigens in human cells by immunofluorescence, immunoelectron microscopy, and immuno-biochemical methods using monoclonal antibodies. In Progress on nonhistone protein research, Vol. 1, Isaac Bekhor, ed., 1985, CRC Press, Boca Raton, FL, pp 117-137
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.