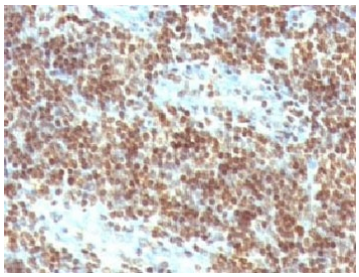
Double Stranded DNA Antibody [clone DSD/958] (V3104)

Catalog No.	Formulation	Size
V3104-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3104-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3104SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3104IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

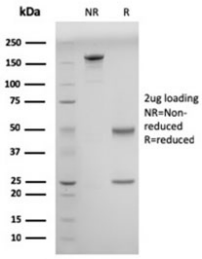
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG3, kappa
Clone Name	DSD/958
Purity	Protein G affinity chromatography
UniProt	Not Known
Localization	Nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Double Stranded DNA antibody is available for research use only.

IHC: Formalin-fixed, paraffin-embedded human colon carcinoma stained with Double Stranded DNA antibody (clone DSD/958).



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with Double Stranded DNA antibody (clone DSD/958).



SDS-PAGE analysis of purified, BSA-free Double Stranded DNA antibody (clone DSD/958) as confirmation of integrity and purity.

Description

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 nucleic acid that stores long-term information regarding the development and function of all known living organisms. DNA consists of two long nucleotide polymers, which are composed of four bases, namely adenine, thymine, guanine and cytosine, all of which are flanked by a phosphate-deoxyribose backbone. Normally, DNA exists as a double-stranded (ds) molecule that forms in the shape of a double helix, allowing the bases and the backbone of the two strands to interact, thus forming a polynucleotide. When the double helix is unwound (either by enzymes or heat), DNA exists as a single-stranded (ss) molecule that is less stable than the double helix, but is necessary for protein access to DNA bases. Double stranded DNA markers are useful tools in biology research and aid in the study of DNA behavior and characteristics.

Application Notes

Optimal dilution of the Double Stranded DNA antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Nuclei of Burkitt's cells were used as the immunogen for the Double Stranded DNA antibody.

Storage

Store the Double Stranded DNA antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).