

dsDNA Antibody [clone AE-2] (V3099)

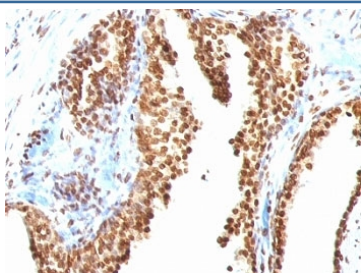
Catalog No.	Formulation	Size
V3099-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3099-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3099SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3099IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml



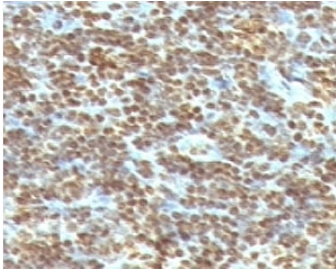
Citations (2)

Bulk quote request

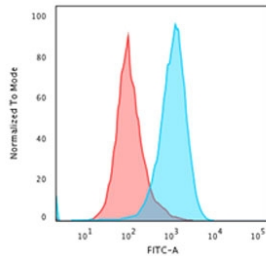
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG3, kappa
Clone Name	AE-2
Purity	Protein G affinity chromatography
UniProt	Not Known
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/million cells in 0.1ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1)
Limitations	This dsDNA antibody is available for research use only.



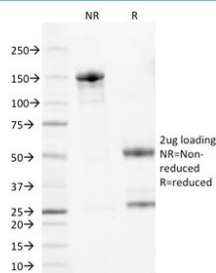
IHC staining of FFPE human colon carcinoma with dsDNA antibody (clone AE-2). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



IHC staining of FFPE human tonsil with dsDNA antibody (clone AE-2). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Flow cytometry testing of fixed and permeabilized human Jurkat cells with dsDNA antibody (clone AE-2); Red=isotype control, Blue= dsDNA antibody.



SDS-PAGE analysis of purified, BSA-free dsDNA antibody (clone AE-2) 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. 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.

Application Notes

Optimal dilution of the dsDNA antibody should be determined by the researcher.

1. 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 dsDNA antibody.

Storage

Store the dsDNA antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

