

## Product datasheet

# Anti-ds DNA antibody [35I9 DNA] - BSA and Azide free ab27156

★★★★★ 10 Abreviews 71 References 1 Image

### Overview

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<b>Product name</b>	Anti-ds DNA antibody [35I9 DNA] - BSA and Azide free
<b>Description</b>	Mouse monoclonal [35I9 DNA] to ds DNA - BSA and Azide free
<b>Host species</b>	Mouse
<b>Specificity</b>	Primarily Double stranded DNA. Measurements by immuno-CE yielded $K_D$ 's of 0.71 $\mu$ M and 0.09 $\mu$ M, for the interaction of this antibody with ss- and dsDNA, respectively. Strong reactivity with both ss- and dsDNA has been observed on dotblots as well as very weak reactivity with RNA.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Positive control</b>	IHC-P: human skin tissue sections.
<b>General notes</b>	<p>This antibody has been shown to be useful, in the detection of dsDNA in fx. <i>Crithidia luciliae</i> -a monoflagellate protozoan,containing a giant mitochondrion. Very good reactivity both with dsDNA and ssDNA on NC-dotblots has been observed. The minimal size for DNA binding for this antibody is &gt;16 bases and there is a inverse proportionality between binding and ionic strength.</p> <p>Abcam recommended secondaries - Goat Anti-Mouse HRP (<a href="#">ab205719</a>) and Goat Anti-Mouse Alexa Fluor® 488 (<a href="#">ab150113</a>).</p> <p>See other <a href="#">anti-mouse secondary antibodies</a> that can be used with this antibody.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Primary antibody notes</b>	This antibody has been shown to be useful, using immunofluorescence, in the detection of dsDNA in fx. <i>Crithidia luciliae</i> -a monoflagellate protozoan,containing a giant mitochondrion. The antibody can be used for easy quantification of in vitro cell proliferation by ELISA and has successfully been used for monitoring cytotoxicity and apoptosis as well as ELISA-based co-culture angiogenesis and proliferation assays. Very good reactivity both with dsDNA and ssDNA on NC-dotblots has been observed. The minimal size for DNA binding for this antibody is >16 bases and there is a inverse proportionality between binding and ionic strength.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3519 DNA
<b>Myeloma</b>	x63-Ag8.653
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

## Applications

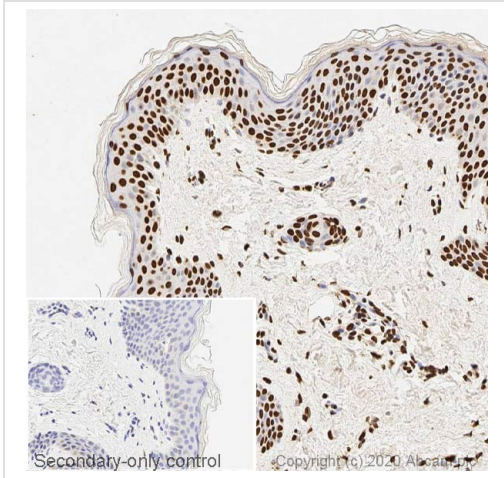
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab27156 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	Use a concentration of 0.05 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Relevance</b>	dsDNA (double stranded deoxyribonucleic acid) 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.
<b>Cellular localization</b>	Nuclear

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ds DNA antibody [3519 DNA] - BSA and Azide free (ab27156)

IHC image of ds DNA staining in a section of formalin-fixed paraffin-embedded normal human skin\* performed on a Leica BOND™ system using the standard protocol **F**. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab27156, 0.05ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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