

# Anti-DNA-RNA Hybrid [S9.6] Antibody

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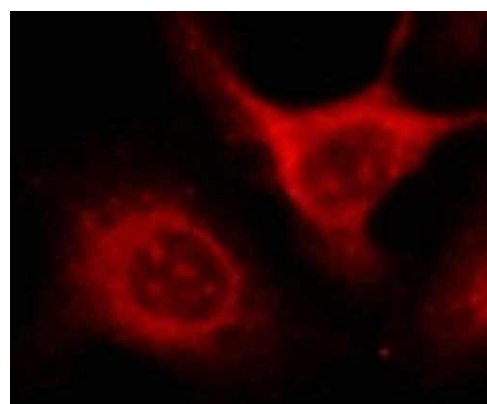
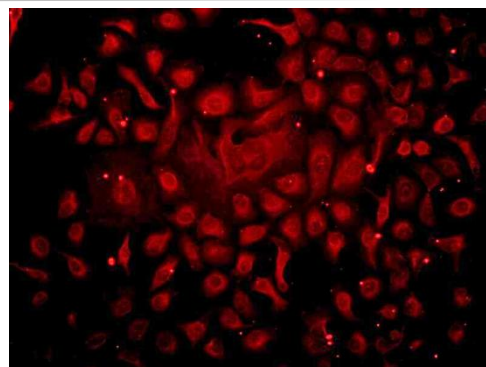
027-59325199

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Only For Research. Not For Diagnosis.

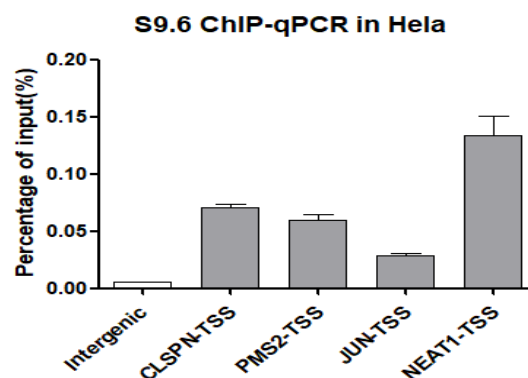
<b>Synonyms:</b>	DNA-RNA hybrid; RNA/DNA hybrid
<b>Attribute:</b>	Mouse Monoclonal Antibody
<b>Isotype:</b>	Mouse IgG2a
<b>Purity:</b>	Protein A/G Purification
<b>Application:</b>	ELISA, IP, IF, CHIP, Dot Blot
<b>Immunogen:</b>	ΦX174 bacteriophage-derived synthetic DNA/RNA
<b>Buffer:</b>	PBS with 0.1% sodium azide and 50% glycerol, pH 7.2
<b>Storage:</b>	Store at -20°C. Do not aliquot
<b>Recommended Dilution:</b>	IP: 3ug/sample IF: 1:100-200



## Background:

The DNA-RNA hybrids are a natural occurrence within eukaryotic cells and their level are high at sites of high transcriptional activity. They are non-canonical nucleic acid structures with transcriptional regulatory functions. Their presence is reported to predispose a locus to chromosomal breakage. The S9.6 monoclonal antibody recognizes DNA-RNA hybrids (also known as R-loops) and does not bind to single or double stranded DNA. The antibody has high affinity for DNA-RNA hybrids but also binds RNA-RNA hybrids that are AU-rich. The specificity of the antibody appears to be determined by a combination of sequence and structural dependency since R-loop sequence affects binding affinity.

Immunofluorescent analysis of ( 4% PFA) fixed HeLa cells using DNA-RNA hybrid Mouse Monoclonal Antibody [S9.6] at dilution of 1:500 and Alexa Fluor 647- conjugated AffiniPure Goat Anti-Mouse IgG(H+L)



Chromatin immunoprecipitation analysis of HeLa cells genomic DNA(gDNA) using DNA-RNA hybrid Mouse Monoclonal Antibody [S9.6] at dilution of 1:200

We focus on precise protein quantification