DNA-RNA Hybrid Monoclonal Antibody[S9.6]

catalog number: E-AB-48028

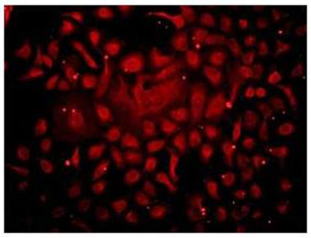
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

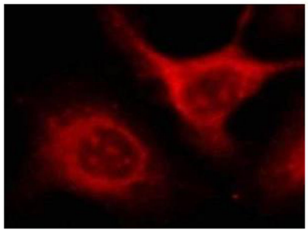
Reactivity	All
Immunogen	ΦX174 bacteriophage-derived synthetic DNA/RNA
Host	Mouse
Isotype	IgG2a
Clone	S9.6
Purification	Protein A/G Purification
Buffer	PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4

Applications	Recommended Dilution
IF	1:200
ChIP	1:50-500

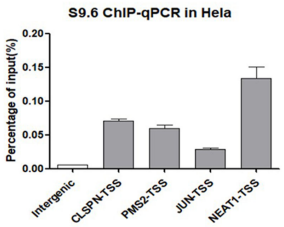
Data



Immunofluorescentanalysis of (4% PFA) fixed HeLa cells using DNA-RNA hybrid mouse monoclonal antibody [S9.6] at dilution of 1:500.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using anti-DNA-RNA hybrid Mouse Monoclonal Antibody [S9.6] at dilution of 1:500.



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

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

Toll-free: 1-888-852-8623
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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.

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