Anti-DNA-RNA Hybrid Antibody(S9.6)

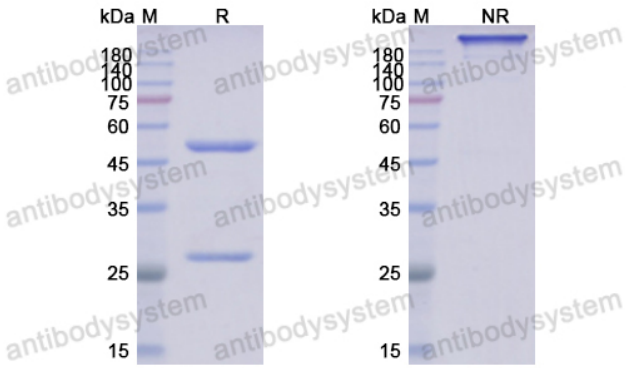
Summary

Catalog No.	RGK60001
Clone ID	S9.6
Host species	mouse
Species reactivity	General
Form	Liquid
Storage buffer	0.01M PBS, pH 7.4.
Concentration	1 mg/ml
Purity	>95% as determined by SDS-PAGE.
Clonality	Monoclonal
Isotype	IgG2a, kappa
Applications	CHIP, ChIP-seq, DB, EMSA, FISH, ICC, IF, IP, SPR
Target	DNA-RNA Hybrid
Purification	Protein A/G purified from cell culture supernatant.
Endotoxin level	Please contact with the lab for this information.
Expression system	Mammalian Cells
Stability and Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Store at 4°C short term (1-2 weeks). Store at -20°C 12 months. Store at -80°C long term.
Note	For research use only.

Description

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. A locus forming an DNA:RNA creates a double-stranded A/B intermediate conformation, with a second target for single-stranded nucleic acid binding proteins on the complementary, displaced DNA strand. They are shown to be resistant to the activity of DNA methyltransferases. The formation of DNA:RNA hybrids has been associated with a number of neurological diseases. Mutations in the DNA:RNA helicase senataxin (SETX) are implicated in the dominant juvenile form of amyotrophic lateral sclerosis type 4 and a recessive form of ataxia oculomotor apraxia type 2.

Data Image



SDS-PAGE

SDS PAGE for DNA-RNA Hybrid Antibody(S9.6)