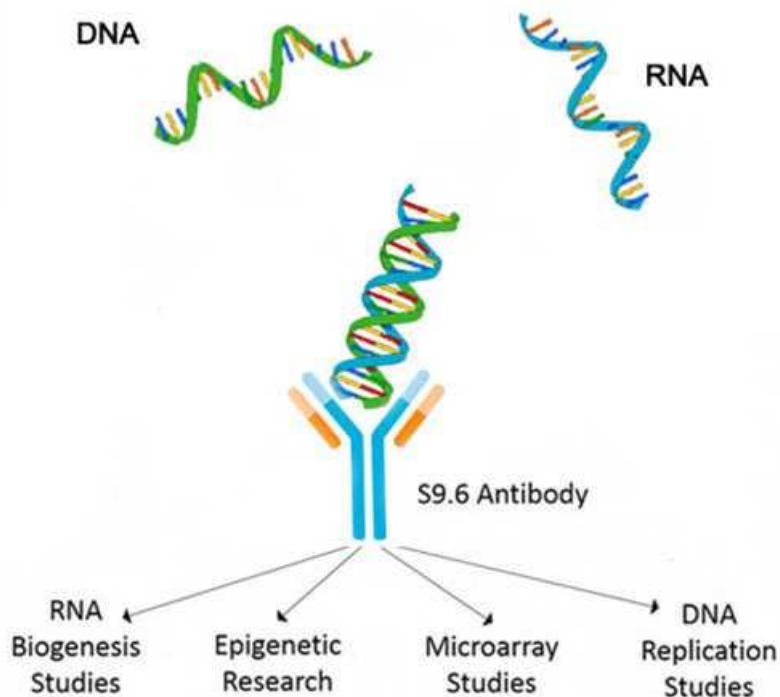


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产品英文名称

[Recombinant Anti-\[S9.6\], Rabbit IgG, 100ug](#)

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货号/SKU

Kf-Ab01137-23.0

货号/规格

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库存与交货期

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产品基础信息

From the laboratory of Stephen H. Leppla, PhD, National Institute of Allergy and Infectious Diseases/NIH.

产品描述信息

Product Type:

Antibody

Name: Anti-DNA-RNA Hybrid [S9.6]
Antigen: S9.6 Φ X174 bacteriophage-derived synthetic DNA-RNA antigen
Isotype: Rabbit IgG
Fusion Tag(s): Mouse Fab version contains His-tag
Clone Name: S9.6
Reactivity: High specificity and affinity for DNA/RNA hybrids and other A-form nucleic acid hybrids
Immunogen: Φ X174 bacteriophage-derived synthetic DNA/RNA
Purification Method: Protein A/G
Buffer: **ENH001:** PBS, 0.05% (w/v) Sodium Azide
Ab01137- : PBS with 0.02% Proclin 300

Dot Blot Analysis: 0.2 μ g/mL.

Affinity Binding Assay: Clone S9.6 bound the DNA-RNA heteropolymer and poly(I)-poly(dC) equally, but 100-fold higher levels of poly(A)-poly(dT) were required to achieve a similar degree of binding. Single-stranded DNA, double-stranded DNA and RNA, and ribosomal RNA were not bound by clone S9.6 (Boguslawski, S.J., et al. (1986). *J. Immunol Methods*. 89(1):123-130).

Chromatin Immunoprecipitation (ChIP) Analysis: A representative lot detected increased DNA RNA hybrids at four actively transcribed genes upon shRNA-mediated knockdown of BRCA1 or BRCA2, but not PCID2 or RAD51 in HeLa cells (Bhatia, V., et al. (2014). *Nature*. 511(7509):362-365).

Chromatin Immunoprecipitation (ChIP) Analysis: A representative lot detected R-loops formed over beta-actin gene using HeLa chromatin preparation. RNase H treatment of the chromatin preparation prevented clone S9.6 from immunoprecipitating target chromatin fragments (Skourti-Stathaki, K., et al. (2011). *Mol. Cell*. 42(6):794-805).

Chromatin Immunoprecipitation-sequencing (ChIP-seq) Analysis: A representative lot detected genome-wide distribution of DNA-RNA hybrids in budding yeast by ChIP-seq analysis (El Hage, A., et al. (2014). *PLoS Genet*. 10(10):e1004716).

Immunocytochemistry Analysis: Representative lots immunolocalized nuclear R loops by fluorescent immunocytochemistry staining of methanol-fixed H1 human embryonic stem cells (hESCs) and formaldehyde-fixed HeLa cells (Bhatia, V., et al. (2014). *Nature*. 511(7509):362-365; Ginno, P.A., et al. (2012). *Mol. Cell*. 45(6):814-825).

Immunoprecipitation Analysis: A representative lot immunoprecipitated in vitro transcribed R-loop substrate (DNA-RNA hybrid), but not double-stranded DNA (dsDNA) (Ginno, P.A., et al. (2012). *Mol. Cell*. 45(6):814-825).

See also: S9.6 Publications by Application

Tested Applications:

产品安全信息

Anti-DNA-RNA Hybrid [S9.6] Antibody - Publications by Application »Phillips DD, Garboczi DN, Singh K, Hu Z, Leppla SH, Leysath CE. The sub-nanomolar binding of DNA-RNA hybrids by the single-chain Fv fragment of antibody S9.6. *J Mol Recognit*. 2013 Aug;26(8):376-81. Boguslawski SJ, Smith DE, Michalak MA, Mickelson KE, Yehle CO, Patterson WL, Carrico RJ. Characterization of monoclonal antibody to DNA:RNA and its application to immunodetection of hybrids. *J Immunol Methods*. 1986 May 1;89(1):123-30. Yehle CO, Patterson WL, Boguslawski SJ, Albarella JP, Yip KF, Carrico RJ. A solution hybridization assay for ribosomal RNA from bacteria using biotinylated DNA probes and enzyme-labeled antibody to DNA:RNA. *Mol Cell Probes*. 1987 Jun;1(2):177-93. Miller CA, Patterson WL, Johnson PK, Swartzell CT, Wogoman F, Albarella JP, Carrico RJ. Detection of bacteria by hybridization of rRNA with DNA-latex and immunodetection of hybrids. *J Clin Microbiol*. 1988 Jul;26(7):1271-6. Casebolt DB, Stephensen CB. Monoclonal antibody solution hybridization assay for detection of mouse hepatitis virus infection. *J Clin Microbiol*. 1992 Mar;30(3):608-12. Hu Z, Zhang A, Storz G, Gottesman S, Leppla SH. An antibody-based microarray assay for small RNA detection. *Nucleic Acids Res*. 2006 Apr 13;34(7):e52. Székvölgyi L, Rákósy Z, Bálint BL, Kókai E, Imre L, Vereb G, Bacsó Z, Goda K, Varga S, Balázs M, Dombrádi V, Nagy L, Szabó G. Ribonucleoprotein-masked nicks at 50-kbp intervals in the eukaryotic genomic DNA. *Proc Natl*

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主要内容

该小鼠单克隆抗体抗φ174噬菌体衍生的合成DNA-RNA抗原产生，并识别各种长度的RNA-DNA杂交物。高灯：在检测R-Loopshigh特异性和对DNA-RNA杂交物的亲和力不交叉反应的情况下有用已经观察到单链DNA或双链DNA或双链DNA的交叉反应（~5倍），用于富含Au的双链RNA.high亲和力结合，用于LightRecomant的8,10,15和23个碱基对的杂交种来自我们姐妹公司的版本，绝对抗体：使用来自杂交瘤S9.6DNA-RNA杂种的可变区（即特异性）的绝对抗体的重组平台制造是真核细胞内的自然发生，这些杂种在位点增加高转录活性，例如在转录起始，抑制和伸长期间。因为RNA-DNA杂交种影响基因组不稳定性，所以S9.6抗体是有用的试剂，以帮助研究在DNA复制或其他细胞过程中通过这些杂种形成的R圈和病变的后果。此外，S9.6抗体可有效识别微阵列研究的RNA-DNA杂交。通过斯蒂芬H.Leppla，博士学位，国家过敏和传染病研究所的实验室。

厂牌介绍

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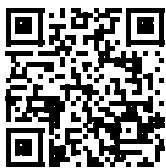
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