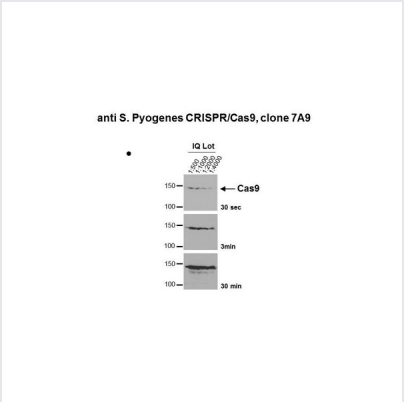
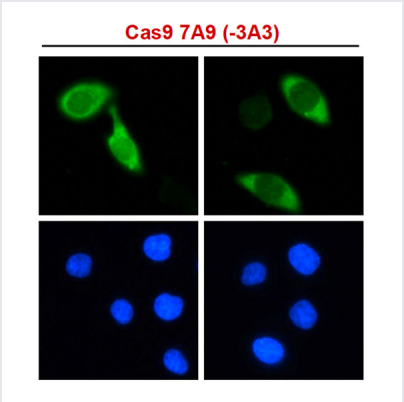
CRISPR/CAS9 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CRISPR/Cas9, Monoclonal Antibody
Full Product Name	CRISPR/Cas9 Monoclonal Antibody [7A9-3A3]-BSA/Azide Free
Product Gene Name	anti-CRISPR/Cas9 antibody
Product Synonym Names	Cas9 antibody; CRISPR-associated endonuclease Cas9/Csn1 antibody; CRISPR-Cas9/Csn1 antibody; csn1 antibody; SpyCas9 antibody
Clonality	Monoclonal
Isotype	IgG1k
Clone Number	7A9-3A3
Host	Mouse
Species Reactivity	Streptococcus pyogene
Form/Format	Purified antibody in PBS. Does not contain sodium azide or BSA
Purity/Purification	Protein A
Concentration	1mg/ml (lot specific)
Molecular Weight	158,441 Da
3D Structure	ModBase 3D Structure for Q99zw2
Immunogen	This antibody was raised against a recombinant protein within the N-terminal region of Streptococcus pyogene Cas9
Target Antigen	CRISPR/Cas9
Myeloma/Fusion Partners	X63.Ag8-653
Pubmed ID	33398349, 33441761, 33767386, 34035409, 34321211, 34430300, 32550896, 32661087, 32986839, 32602833, 31964705, 32267915, 31980609, 31900423, 31051099, 30805613, 31361218, 31410472, 30858603, 30617347, 31184714, 31006810, 30073181, 30082871, 30291237, 30213867, 29519936, 29759820, 30537986, 29927077, 27820801, 27486969, 28694259, 28624187, 29141659, 28851710, 27499201, 27638686, 26245833
Applications Tested/Suitable for anti-CRISPR/Cas9 antibody	Immunoblot (IB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CRISPR/Cas9 antibody	IB: 0.1-1ug/ml
Related Product Information for anti-CRISPR/Cas9 antibody	MBS375451 is an antibody targeting CRISPR/Cas9. Also known as CRISPR/Cas9 Monoclonal Antibody [7A9-3A3]-BSA/Azide Free. Reactive in Streptococcus pyogene. Host: Mouse. Mouse Anti-CRISPR/Cas9 [7A9-3A3]
Other Notes	Small volumes of anti-CRISPR/Cas9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CRISPR/Cas9 antibody
Western blot-Anti CRISPR/Cas9 Antibody [7A9-3A3]



Immunofluorescence (IF) of anti-CRISPR/Cas9 antibody
IF-CRISPR/Cas9 Monoclonal Antibody [7A9-3A3] on HeLa cells

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRISPR/Cas9. It may not necessarily be applicable to this product.

NCBI GI #	15675041
NCBI GeneID	901176
NCBI Accession #	NP_269215.1
UniProt Primary Accession #	Q99zw2
GenBank Nucleotide #	NC_002737.2
NCBI Official Full Name	conserved hypothetical protein
NCBI Official Symbol	SPy_1046
UniProt Protein Name	CRISPR-associated endonuclease Cas9/Csn1
UniProt Synonym Protein Names	SpyCas9
UniProt Gene Name	cas9
UniProt Entry Name	CAS9_STRP1
NCBI Protein Information	hypothetical protein
UniProt Comments for CRISPR/Cas9	Cas9: CRISPR (clustered regularly interspaced short palindromic repeat) is an adaptive immune system that provides protection against mobile genetic elements (viruses, transposable elements and conjugative plasmids). CRISPR clusters contain spacers, sequences complementary to antecedent mobile elements, and target invading nucleic acids. CRISPR clusters are transcribed and processed into CRISPR RNA (crRNA). In type II CRISPR systems correct processing of pre-crRNA probably requires a trans-encoded small RNA (tracrRNA), endogenous ribonuclease 3 (rnc) and Cas9. The tracrRNA serves as a guide for ribonuclease 3-aided processing of pre-crRNA (By similarity). Cas9/crRNA endonucleolytically cleaves linear or circular dsDNA target complementary to the spacer. Binding to dsDNA target requires a short motif in the CRISPR repeat sequences (the PAM or protospacer adjacent motif). When the CRISPR3/cas system consisting of cas9-cas1-cas2-csn2-CRISPR3 or just cas9-CRISPR3 is expressed in E.coli it prevents plasmids homologous to spacers 1 or 2 from transforming Protein type: EC 3.1.-.-
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