## Cas9 (7A9-3A3) Mouse mAb (Biotinylated)



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Applications: W	<b>Reactivity:</b> All	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 160	Source/Isotype: Mouse IgG1	UniProt ID: #Q99ZW2	Entrez-Gene Id: 901176
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Cas9 (7A9-3A3) Mouse mAb (Biotinylated) recognizes transfected levels of total Cas9 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of Cas9 from <i>Streptococcus pyogenes</i> .				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cas9 (7A9-3A3) Mouse mAb #14697.				
Background		pyogenes CRISPR anti- extrachromosomal ge (i), acquisition of foreigh followed by the formal recognition of foreigh CRISPR/Cas antiviral in potential for specific grands and consisting of a furite introduced or expression a specific DNA target vitro and in cells and corganisms, including in	viral immunity syst netic material (1). I gn DNA by host ba- tion of RNA-Cas nu DNA by the compl mmunity system pr lene regulation and sion between a cri- ed in a cell. A 20-nu et site. As a result, organisms. CRISPR mouse and human	s an RNA-guided DNA nuter that provides adapting the CRISPR antiviral medicterium; (ii), synthesis and clease protein complexe ex and its cleavage by Covides a powerful tool for therapeutic application RNA and a trans-activating cleotide sequence at the Cas9 can be "programm (Cas9 genome editing to cells (4,5). Research sturter genes in rodents and	ve immunity agains thanism of action in maturation of CRes; and (iii), target in as nuclease activity or precise genome as (3). The Cas9 profag crRNA (tracrRNA) e 5' end of the guided" to cut various Cools have been used dies demonstrate the	volves three steps: LISPR RNA (crRNA) Atterference through (2). The type II editing and has tein and a guide must be te RNA directs Cas9 DNA sites both in I in many that CRISPR can be
Background References		1. Horvath, P. and Barrangou, R. (2010) <i>Science</i> 327, 167-70.  2. Wiedenheft, B. et al. (2012) <i>Nature</i> 482, 331-8.  3. Singh, P. et al. (2015) <i>Genetics</i> 199, 1-15.  4. Cong, L. et al. (2013) <i>Science</i> 339, 819-23.  5. Mali, P. et al. (2013) <i>Science</i> 339, 823-6.  6. Li, D. et al. (2013) <i>Nat Biotechnol</i> 31, 681-3.  7. Shen, B. et al. (2013) <i>Cell Res</i> 23, 720-3.  8. Niu, Y. et al. (2014) <i>Cell</i> 156, 836-43.				

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key All: All Species Expected

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