## ຊັ Cas9 (*S. aureus*) (E4G3U) Rabbit mAb





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<b>Applications:</b> W, IF-IC, FC-FP	<b>Reactivity:</b> All	Sensitivity: Transfected Only	<b>MW (kDa):</b> 124	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #J7RUA5
Product Usage Information Storage		Application Western Blotting Immunofluorescence (Imm Flow Cytometry (Fixed/Perr Supplied in 10 mM sodium 0.02% sodium azide. Store a	neabilized) HEPES (pH 7.5), 150 at –20°C. Do not aliq	uot the antibody.	<b>Dilution</b> 1:1000 1:200 1:100 , 50% glycerol and less than
Specificity/Sensi	tivity	Cas9 ( <i>S. aureus</i> ) (E4G3U) Ra does not cross-react with C	bbit mAb recognizes	s transfected Cas9 ( <i>S. Aur</i>	<i>eus</i> ) protein. This antibody
Source / Purifica	tion	Monoclonal antibody is pro residues surrounding Val90			c peptide corresponding to
Background		immunity system that provi CRISPR antiviral mechanism bacterium; (ii), synthesis an nuclease protein complexes complex and its cleavage by provides a powerful tool for therapeutic applications (3) and a trans-activating crRN sequence at the 5' end of th be "programmed" to cut va genome editing tools have Research studies demonstr rodents and primate embry Cas9 ( <i>S. aureus</i> ) is a Cas9 of	ides adaptive immur n of action involves t d maturation of CRI s; and (iii), target inte y Cas nuclease activi r precise genome ed . The Cas9 protein a A (tracrRNA) must bo ne guide RNA directs rious DNA sites both been used in many o ate that CRISPR can yonic stem cells (6-8) rtholog that is smalle	hity against extra chromo hree steps: (i), acquisition SPR RNA (crRNA), followed erference through recogn ty (2). The type II CRISPR/ iting and has potential fo nd a guide RNA consisting e introduced or expressed c Cas9 to a specific DNA ta in vitro and in cells and co organisms, including mou be used to generate mut.	d by the formation of RNA-Cas ition of foreign DNA by the Cas antiviral immunity system r specific gene regulation and g of a fusion between a crRNA d in a cell. A 20-nucleotide arget site. As a result, Cas9 can organisms. CRISPR/Cas9 use and human cells (4,5). ant alleles or reporter genes in
Background Ref	erences	ortholog, Cas9 ( <i>S. pyogene</i> . 1. Horvath, P. and Barrango 2. Wiedenheft, B. et al. (201 3. Singh, P. et al. (2013) <i>Ger</i> 4. Cong, L. et al. (2013) <i>Scien</i> 5. Mali, P. et al. (2013) <i>Nat Bio</i> 7. Shen, B. et al. (2013) <i>Nat Bio</i> 7. Shen, B. et al. (2013) <i>Cell</i> 8. Niu, Y. et al. (2014) <i>Cell</i> 9. Ran, F.A. et al. (2015) <i>Nat</i>	ou, R. (2010) <i>Science</i> 2) <i>Nature</i> 482, 331-8 <i>netics</i> 199, 1-15. <i>nce</i> 339, 819-23. <i>nce</i> 339, 823-6. <i>ntechnol</i> 31, 681-3. <i>Res</i> 23, 720-3. 56, 836-43.		
Species Reactivit	ţy	Species reactivity is determ	ined by testing in at	least one approved appli	cation (e.g., western blot).
Western Blot Bu	ffer	IMPORTANT: For western b dry milk, 1X TBS, 0.1% Twee			/ antibody in 5% w/v nonfat
Applications Key	,	<b>W:</b> Western Blotting <b>IF-IC:</b> I (Fixed/Permeabilized)	mmunofluorescence	e (Immunocytochemistry)	FC-FP: Flow Cytometry

Cross-Reactivity Key	All: All Species Expected		
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