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AsCpf1/Cas12a (Strain *BV3L6*) (E1U7C) Rabbit mAb Store at -20C



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Applications:SensitivitW, IF-IC, FC-FPTransfected		Source/Isotype: Rabbit IgG	UniProt ID: #U2UMQ6			
Product Usage Information	Application Western Blotting Immunofluorescence (In Flow Cytometry (Fixed/P			Dilution 1:1000 1:400 1:400		
Storage		m HEPES (pH 7.5), 150 mM re at –20°C. Do not aliquot	1 NaCl, 100 μg/ml BSA, 50% g the antibody.	lycerol and less than		
	For a carrier free (BSA ar	d azide free) version of th	is product see product #3320	9.		
Specificity/Sensitivity	AsCpf1/Cas12a (Strain <i>BV3L6</i>) (E1U7C) Rabbit mAb recognizes transfected levels of total AsCpf1/Cas12a (Strain <i>BV3L6</i>) protein. This antibody does not cross-react with Cas9 (<i>S. pyogenes</i>), Cas9 (<i>S. aureus</i>), and FnCpf1/Cas12a (Strain <i>U112</i>) proteins.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu822 of <i>Acidaminococcus</i> sp. Cpf1/Cas12a (Strain <i>BV3L6</i>) protein.				
Background	are RNA-guided nuclease (1). Cpf1/Cas12a (CRISPR system (2). Class 2 CRISP effector proteins to med systems, have several ur techniques: 1) Cpf1/Cas1 the requirement of a trai adjacent motif (PAM) sec rather than a blunt-ende CRISPR-Cas systems for s bacterial orthologs have	e effectors that are utilized from <i>Prevotella</i> and <i>Franc</i> R systems, such as the we iate DNA interference (3). ique features that increas 2a-mediated cleavage reli ns-activating crRNA (tracrF uences rather than a G-Ri d, DNA double-stranded b specific gene regulation ar been characterized for CR	palindromic repeats and CRIS I for precise genome editing is <i>cisella</i>) proteins are members Il characterized Cas9, rely on Cpf1/Cas12a endonucleases, e the utility of CRISPR-based es on a single and short CRIS RNA), 2) Cpf1/Cas12a utilizes T ch PAM, and 3) Cpf1/Cas12a g reak (2). These features broa and therapeutic applications. S ISPR-mediated mammalian g yme derived from <i>Acidamino</i>	n mammalian systems of the Class 2 CRISPR single-component compared to Cas9 genome editing PR RNA (crRNA) without F-Rich protospacer- generates a staggered, den the utility of using everal Cpf1/Cas12a genome editing (2,4).		
Background References	1. Cong, L. et al. (2013) <i>S</i> 2. Zetsche, B. et al. (2015 3. Horvath, P. and Barrar 4. Zhang, Y. et al. (2017) 5. Zetsche, B. et al. (2015 6. Zhang, Y. et al. (2017)) <i>Cell</i> 163, 759-71. gou, R. (2010) <i>Science</i> 327 <i>Sci Adv</i> 3, e1602814.) <i>Cell</i> 163, 759-71.	7, 167-70.			
Species Reactivity	Species reactivity is dete	rmined by testing in at lea	st 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 IF-I (Fixed/Permeabilized)	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
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