

Datasheet: MCA1360A647 BATCH NUMBER 0215

Description:	MOUSE ANTI V5-TAG:Alexa Fluor® 647
Specificity:	V5-TAG
Other names:	PK-TAG
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody SV5-Pk1
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Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			
	necessarily exclude it	s use in such procedu mmended that the us	or use in a particular tec ures. Suggested working eer titrates the antibody controls.	g dilutions are given as	
Target Species	Viral				
Product Form	Purified IgG conjugate	ed to Alexa Fluor® 64	7 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®647	650	665		
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G fror	n tissue culture	
Buffer Solution	Phosphate buffered s	aline			
Preservative	0.09% Sodium Azide	(NaN ₃)			
Stabilisers	1% Bovine Serum Alb	pumin			
Approx. Protein	IgG concentration 0.0	5 mg/ml			

Concentrations

Immunogen	Paramyxovirus Simian-Virus 5 (SV5)
External Database Links	UniProt: <u>P11207</u> Related reagents
RRID	AB_770156
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 Ag14 myeloma cell line.
Specificity	Mouse anti V5-Tag, clone SV5-Pk1 recognizes the sequence, IPNPLLGLD, present on the P/V proteins of the paramyxovirus, SV5 (<u>Dunn <i>et al.</i> 1999</u>). Clone SV5-Pk1 is used to detect recombinant proteins, some of which include transmembrane and secreted proteins, that have labeled with tags containing this sequence (<u>Randall <i>et al.</i> 1993</u> and <u>Zhao <i>et al.</i> 2005</u>).
References	 Southern, J.A. <i>et al.</i> (1991) Identification of an epitope on the P and V proteins of simian virus 5 that distinguishes between two isolates with different biological characteristics. <u>J Gen Virol. 72 (Pt 7): 1551-7</u>. Orime, K. <i>et al.</i> (2013) Trefoil Factor 2 Promotes Cell Proliferation in Pancreatic β-Cells through CXCR-4-Mediated ERK1/2 Phosphorylation. <u>Endocrinology. 154: 54-64.</u> Randall, R.E. <i>et al.</i> (1993) Two-tag purification of recombinant proteins for the construction of solid matrix-antibody-antigen (SMAA) complexes as vaccines. <u>Vaccine. 11 (12): 1247-52.</u> Randall, R.E. <i>et al.</i> (1994) Purification of antibody-antigen complexes containing recombinant SIV proteins: comparison of antigen and antibody-antigen complexes for immune priming. <u>Vaccine. 12 (4): 351-8.</u> Hanke, T. <i>et al.</i> (1995) Attachment of an oligopeptide epitope to the C-terminus of recombinant SIV gp160 facilitates the construction of SMAA complexes while preserving CD4 binding. <u>J Virol Methods. 53 (1): 149-56.</u> Jaffray, E. <i>et al.</i> (1995) Inducible degradation of I kappa B alpha and sites of interaction with NF-kappa B 65. Mol Cell Biol. 15 (4): 2166-72. Rodriguez, M.S. <i>et al.</i> (2009) The DC-HIL/syndecan-4 pathway inhibits human allogeneic T-cell responses. <u>Eur J Immunol. 39: 965-74.</u> Hirst, K. <i>et al.</i> (2010) Inhibition of factor, the Cdk, its cyclin and their regulator: directing the transcriptional response to a nutritional signal. <u>EMBO J. 13 (22): 5410-20.</u> Dunn, C. <i>et al.</i> (2010) Inhibition of hypoxia-inducible factor-1alpha (HIF-1alpha) protein synthesis by DNA damage inducing agents. <u>PLoS One. 5: e10522.</u> Sanchez Garcia, J. <i>et al.</i> (2004) The C-terminal zinc finger of the catalytic subunit of DNA polymerase delta is responsible for direct interaction with the B-subunit. <u>Nucleic Acids Res. 32 (10): 3005-16.</u>

Herskowitz, J.H. *et al.* (2011) Rho kinase II phosphorylation of the lipoprotein receptor LR11/SORLA alters amyloid-beta production. <u>J Biol Chem. 286 (8): 6117-27.</u>
 Liebau, M.C. *et al.* (2011) Nephrocystin-4 regulates Pyk2-induced tyrosine phosphorylation of Nephrocystin-1 to control targeting to monocilia. <u>J Biol Chem. 286:</u>

<u>14237-45.</u>

15. Björk, J.K. *et al.* (2010) miR-18, a member of Oncomir-1, targets heat shock transcription factor 2 in spermatogenesis. <u>Development. 137(19):3177-84.</u>

16. Boggio, R. *et al.* (2007) Targeting SUMO E1 to ubiquitin ligases: a viral strategy to counteract sumoylation. <u>J Biol Chem. 282: 15376-82.</u>

17. Gallazzini, M. *et al.* (2011) High NaCl-induced activation of CDK5 increases phosphorylation of the osmoprotective transcription factor TonEBP/OREBP at threonine 135, which contributes to its rapid nuclear localization. <u>Mol Biol Cell. 22: 703-14.</u>

18. Hadler, K.S. *et al.* (2008) Identification of a non-purple tartrate-resistant acid phosphatase: an evolutionary link to Ser/Thr protein phosphatases? <u>BMC Res Notes. 1:</u> 78.

19. Zhao, A. *et al* (2011) Rapid isolation of high-affinity human antibodies against the tumor vascular marker Endosialin/TEM1, using a paired yeast-display/secretory scFv library platform. J Immunol Methods. 363: 221-32.

20. Patino, G.A. *et al.* (2011) Voltage-Gated Na+ Channel {beta}1B: A Secreted Cell Adhesion Molecule Involved in Human Epilepsy. <u>J Neurosci. 31: 14577-91.</u>

21. Gatherer, D. *et al.* (2011) High-resolution human cytomegalovirus transcriptome. <u>Proc</u> <u>Natl Acad Sci U S A.108: 19755-60.</u>

22. Mahuzier, A. *et al.* (2012) Dishevelled stabilization by the ciliopathy protein Rpgrip1I is essential for planar cell polarity. <u>J Cell Biol. 198: 927-40.</u>

23. Zhao, C. *et al.* (2005) Human ISG15 conjugation targets both IFN-induced and constitutively expressed proteins functioning in diverse cellular pathways. <u>Proc Natl Acad</u> <u>Sci U S A. 102:10200-5</u>

24. Singh, A. *et al.* (2014) Trypanosome MKT1 and the RNA-binding protein ZC3H11: interactions and potential roles in post-transcriptional regulatory networks. <u>Nucleic Acids</u> <u>Res. 42: 4652-68.</u>

25. Mui, M.Z. *et al.* (2015) The Human Adenovirus Type 5 E4orf4 Protein Targets Two Phosphatase Regulators of the Hippo Signaling Pathway. <u>J Virol. 89 (17): 8855-70.</u>
26. Shi X *et al.* (2016) Bunyamwera orthobunyavirus glycoprotein precursor is processed by cellular signal peptidase and signal peptide peptidase. <u>Proc Natl Acad Sci U S A. 113</u> (31): 8825-30.

27. Ng, M.Y. *et al.* (2017) Activation of MAPK/ERK signaling by *Burkholderia pseudomallei* cycle inhibiting factor (Cif). <u>PLoS One. 12 (2): e0171464.</u>

28. Voskarides, K. *et al.* (2017) A functional variant in NEPH3 gene confers high risk of renal failure in primary hematuric glomerulopathies. Evidence for predisposition to microalbuminuria in the general population. <u>PLoS One. 12 (3): e0174274.</u>

29. Malik, S. *et al.* (2015) Adrenocorticotropic Hormone (ACTH) Responses Require Actions of the Melanocortin-2 Receptor Accessory Protein on the Extracellular Surface of the Plasma Membrane. J Biol Chem. 290 (46): 27972-85.

30. Carrocci, T.J. *et al.* (2017) SF3b1 mutations associated with myelodysplastic syndromes alter the fidelity of branchsite selection in yeast. <u>Nucleic Acids Res. 45 (8):</u> 4837-4852.

31. Kerwin, S.K. et al. (2018) Regulated Alternative Splicing of Drosophila Dscam2 Is

	Necessary for Attaining the Appropriate Number of Photoreceptor Synapses. Genetics.
	<u>208 (2): 717-728.</u>
	32. Játiva, S. et al. (2019) Cdc14 activation requires coordinated Cdk1-dependent
	phosphorylation of Net1 and PP2A-Cdc55 at anaphase onset. <u>Cell Mol Life Sci. 76 (18)</u> :
	<u>3601-20.</u>
	33. Tan, C.Y. & Hagen, T. (2013) mTORC1 dependent regulation of REDD1 protein
	stability. <u>PLoS One. 8 (5): e63970.</u>
	34. Waizenegger, A. <i>et al.</i> (2020) Mus81-Mms4 endonuclease is an Esc2-STUbL-Cullin8
	mitotic substrate impacting on genome integrity. Nat Commun. 11 (1): 5746.
	35. Yahya, G. et al. (2020) Phospho-regulation of the Shugoshin - Condensin interaction
	at the centromere in budding yeast. <u>PLoS Genet. 16 (8): e1008569.</u>
	36. Lee, B.G. et al. (2020) Cryo-EM structures of holo condensin reveal a subunit flip-flop
	mechanism. <u>Nat Struct Mol Biol. 27 (8): 743-51.</u>
	37. Bajak, K. et al. (2020) A potential role for a novel ZC3H5 complex in regulating mRNA
	translation in <i>Trypanosoma brucei</i> . <u>J Biol Chem. 295 (42): 14291-304.</u>
	38. Sabath, K. et al. (2020) INTS10-INTS13-INTS14 form a functional module of Integrator
	that binds nucleic acids and the cleavage module. <u>Nat Commun. 11 (1): 3422.</u>
	39. Du, Z. et al. (2021) Structure-function analysis of oncogenic EGFR Kinase Domain
	Duplication reveals insights into activation and a potential approach for therapeutic
	targeting. <u>Nat Commun. 12 (1): 1382.</u>
	40. Morafraile, E.C. et al. (2020) Exo1 phosphorylation inhibits exonuclease activity and
	prevents fork collapse in rad53 mutants independently of the 14-3-3 proteins. Nucleic
	Acids Res. 48 (6): 3053-70.
Storage	Store at +4°C or at -20°C if preferred.
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	This product should be stored undiluted.
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	Storage in frost-free freezers is not recommended. This product is photosensitive and
	should be protected from light.
	Avoid repeated freezing and thawing as this may denature the antibody. Should this
	product contain a precipitate we recommend microcentrifugation before use.
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