

Datasheet: MCA6032 BATCH NUMBER 160226

Description:	MOUSE ANTI POLYUBIQUITIN (K63-LINKAGE SPECIFIC)
Specificity:	POLYUBIQUITIN (K63-LINKAGE SPECIFIC)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HWA4C4
Isotype:	lgG2a
Quantity:	50 µl

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-</u>					
	rad-antibodies.com/proto					
	In the second second second second	Yes	No	Not Determined	Suggested Dilution	
	Immunohistology - Frozen	•			1/100	
	Western Blotting (1)	-			1/500 - 1/1000	
	Immunocytochemistry	· · · ·			1/100	
	Where this product has not been tested for use in a particular technique this does not					
	necessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a guide only. It is recomr	nended th	at the use	er titrates the product f	or use in their own	
	system using appropriate	e negative	/positive	controls.		
	(1)Specificity for K ⁶³ poly	ubiquitin	is temper	ature sensitive and exc	cessive heat should be	
	avoided in all application					
Target Species	Broad					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant					
Buffer Solution	Phosphate buffered salin	ie				
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)				
Approx. Protein Concentrations	IgG concentration 1.0 mg	g/ml				

Immunogen	Synthetic peptide containing the ubiquitin K ⁶³ -isopeptide motif	
Specificity	Mouse anti polyubiquitin (K63-linkage specific) antibody c Lysine-63 linked polyubiquitin chains.	lone HWA4C4 recognizes
	Ubiquitin, as the name implies, is a ubiquitously expressed and of 8.6 kDa. The protein is covalently linked to selected lysine re post-translational modification process known as ubiquitylation chemical reaction is mediated by three different protein families enzymes (also known as E1s), ubiquitin-conjugating enzymes ubiquitin ligases (also known as E3s) (<u>Hershko and Ciechanov</u>	esidues in a or ubiquitination. This s; ubiquitin-activating (also known as E2s) and
	The impact of ubiquitination depends on whether a single ubiq (monoubiquitination) or an ubiquitin chain (polyubiquitination) if protein. Monoubiquitination tends to trigger cellular processes membrane trafficking (<u>Haglund <i>et al.</i> 2003</u>) while the impact of depending on how the ubiquitin residues in the chain have bee Lysine-48 ubiquitin chains results in degradation by the 20S pr Lysine-63 ubiquitin chains mediates DNA damage and NFkapp <u>Mocciaro and Rape 2012</u>). Lysine-6, Lysine-11, Lysine-27, Lys have also been reported (<u>Komander 2009</u> and <u>Ye and Rape 20</u>	has been attached to a related to endocytosis and polyubiquitination varies en linked. Attachment of roteasome while addition of paB signaling (<u>Chen 2005;</u> ine-29 and Lysine-33 chains
Western Blotting	Mouse anti polyubiquitin K ⁶³ linkage specific antibody recogniz in a wide range of species but does not recognize any other is polyubiquitinylated proteins by Western Blot. Use of milk base recommended. 1% BSA in PBS or TBS Tween should be used	opeptide-linked d blocking reagents is not
References	1. Wang, H. <i>et al.</i> (2008) Analysis of nondegradative protein ul monoclonal antibody specific for lysine-63-linked polyubiquitin. <u>105 (51): 20197-202.</u>	
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezi denature the antibody. Should this product contain a precipitate microcentrifugation before use.	
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6032 10040	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE					
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>						
Goat Anti Mouse IgG (STAR76)	RPE					
Rabbit Anti Mouse IgG (STAR13)	HRP					
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>					
Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,						
	DyLight®650, DyLight®680, DyLight®800	,				
	FITC, HRP					
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>					
Goat Anti Mouse IgG (STAR77)	HRP					
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP					
Recommended Useful Reagents						
TidyBlot WESTERN BLOT DETECTION REAGENT: HRP (STAR209P)						
North & South Tel: +1 800 265 7376 Worldwi	de Tel: +44 (0)1865 852 700 Europe	Tel: +49 (0) 89 8090 95 21				
America Fax: +1 919 878 3751	Fax: +44 (0)1865 852 739	Fax: +49 (0) 89 8090 95 50				
Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com	Email: antibody_sales_de@bio-rad.com				

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M338059:181217'

Printed on 19 Jan 2024

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