

Datasheet: HCA356

Description:	ANTI PARP1-S499-ADP-RIBOSE			
Specificity:	PARP1-S499-ADP-RIBOSE			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	AbD34251			
lsotype:	lgG			
Quantity:	0.1 mg			

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/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	ELISA	-			2 ug/ml		
	Western Blotting				2 ug/ml		
	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 recom			•	or use in their own		
	system using appropriate negative/positive controls.						
Target Species	Protein/peptide tag						
Product Form	Human/Rabbit IgG chim phage display library an liquid.	•		, .			
Preparation	Purified recombinant Ig0 mammalian cell line	G prepared	l by affinit	y chromatography on l	Protein A from a		
Source	HKB-11						
Buffer Solution	Phosphate buffered sali	ne					
Preservative Stabilisers	0.09% Sodium Azide (N	aN ₃)					
Carrier Free	Yes						

Approx. Protein Concentrations	Total protein concentra	tion 0.5 mg/ml					
Immunogen	APRGKS(ADPr)GAALSKKSKGQVGGK Anti-PARP1-S499-ADP-ribose antibody, clone AbD34251, recognizes PARP1, ADP-ribosylated at Serine 499. Poly(ADP-ribose) polymerase 1 (PARP1) is an early responder to DNA damage in human cells. Upon binding to genomic lesions PARP1 is able to transfer a mono- or poly-ADP-ribose residue from nicotinamide adenine dinucleotide (NAD+) to their substrate proteins, for chromatin decompaction and repair factor recruitment (Bütepage <i>et al.</i> 2015, Suskiewicz <i>et al.</i> 2020). During the DNA damage response, serine is the primary target for PARP1 ADP-ribosylation which uses Histone PARylation factor 1 (HPF1) as an accessory factor to switch the amino-acid specificity of PARP1 from aspartate/glutamate to serine residues (Bonfiglio <i>et al.</i> 2017, Suskiewicz <i>et al.</i> 2020). PARP1/HPF1 during DNA damage response, primarily target PARP1 itself and histone H3, ribosylating these substrate proteins.						
Specificity							
	This PARP1-S499ADPr antibody, clone AbD34251 was generated using an ADP-ribosylated PARP1S499 antigen. Characterization has demonstrated the antibody does not bind any other Ser-ADP-ribosylated peptides tested and binds via three residues before and one after the modified Serine. This clone does not detect poly-ADP-ribose in a site-specific manner (<u>Bonfiglio <i>et al.</i> 2020</u>).						
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store a -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C fo short term use (up to 4 weeks) and store the remaining aliquots at -20°C.						
	Avoid repeated freezin frost-free freezers is no	g and thawing as this n ot recommended.	nay denature th	ne antibody. Storage in			
Guarantee	12 months from date of	f despatch					
Acknowledgements	•	nts, and/or pending U.S. and io-Rad Laboratories, Inc. Sec					
Health And Safety Information	•	eet documentation #10 tibodies.com/SDS/HCA		at:			
Regulatory	For research purposes	only					
rth & South Tel: +1 800 26 herica Fax: +1 919 8 Email: antiboo		Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bic	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.con			

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

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