Datasheet: VMA00013 BATCH NUMBER 080714

Description:	HUMAN ANTI Ku70
Specificity:	Ku70
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	HuCAL Fab bivalent
Quantity:	100 µl

Product Details

Applications	derived from testing w communications from	ithin our lab the originate	orted to work in the following applications. This information is our laboratories, peer-reviewed publications or personal originators. Please refer to references indicated for further				
	information. For general protocol recommendations, please visit <u>www.bio-</u>						
	rad-antibodies.com/pro						
	Western Blotting	Yes	No	Not Determined	Suggested Dilution 1/1000		
	Western Diotting				1/1000		
	criteria within Bio-Ra how we validate our	id's ongoin PrecisionA nnique this c	g antibo . b range . does not r	dy validation program Where this product ha necessarily exclude its	e defined performance nme. Click <u>here</u> to learn s not been tested for use in such procedures.		
Target Species	Human						
Product Form	A bivalent human recombinant Fab selected from the HuCAL [®] GOLD phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with myc-tag (EQKLISEEDL) and a double extended Strep-tag at the C-terminus of the antibody heavy chain. This product is supplied as a liquid.						
Preparation	Recombinant human monoclonal antibody purified by metal chelate affinity chromatography						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)					
Immunogen	Human Ku70 - N1 fusi	on protein					

External Database Links	UniProt: P12956 Related reagents Entrez Gene: 2547 XRCC6 Related reagents
Synonyms	G22P1
Specificity	Human anti Human Ku70 antibody recognizes Human Ku70, also known as X-ray repair cross-complementing protein 6 or XRCC6. Ku70 is a 609 amino acid, nuclear protein involved in DNA damage repair. Ku70 contains a single <u>Ku domain</u> and a single <u>SAP</u> <u>domain</u> .
	Ku70 forms a heterodimer comprising of p70/p86 which acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA. Research indicates that the Ku p70/p86 dimer is probably involved in stabilizing broken DNA ends and bringing them together (<u>Walker <i>et al.</i> 2001</u>).
	Human anti Human Ku70 antibody recognizes human Ku70 as a single band of ~70 kDa in multiple human cell line lysates by western blotting under reducing conditions.
Western Blotting	Anti Ku70 antibody detects a band of approximately 70 kDa in HeLa cell lysates.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	12 months from date of despatch
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. PrecisionAb is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <u>https://www.bio-rad-antibodies.com/SDS/VMA00013</u> Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...)HRPGoat Anti Human IgG F(ab')2 (STAR126...)HRP

North & South	Tel: +1 800 265 7376	Worldwide	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-ra	ad.com	Email: antibody_sales_uk@bio-ra	ad.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

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