

Datasheet: VMA00013KT

Description:	Ku70 ANTIBODY WITH CONTROL LYSATE		
Specificity:	Ku70		
Format:	Purified		
<b>Product Type:</b>	PrecisionAb Monoclonal		
Isotype:	HuCAL Fab bivalent		
Quantity:	2 Westerns		

# **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting				1/1000

PrecisionAb antibodies have been extensively <u>validated for the western blot</u> <u>application</u>. The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human		
Product Form	A bivalent human recombinant Fab selected from the HuCAL <sup>®</sup> 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	20µl Recombinant human monoclonal antibody purified by metal chelate affinity chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> )		
Immunogen	Human Ku70 - N1 fusion protein		

# **External Database UniProt:** Links 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 Ku domain and a single SAP domain. 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 (Walker et al. 2001). 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. **Instructions For Use** Please refer to the PrecisionAb western blotting protocol. For additional information on secondary antibody dilution and exposure time see product web page. **Lysate Composition** 400µg HeLa lysate lyophilized in RIPA buffer. Lysate Reconstitution - If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. - If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol. Storage Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles. Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage. Guarantee As supplied, 12 months from date of despatch. Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Material Safety Datasheet documentation #10040 #10561 available at:

Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a>

**Health And Safety** 

Information

# **Related Products**

### **Recommended Secondary Antibodies**

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

North & South Tel: +1 800 265 7376 America

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21

Fax: +1 919 878 3751

Email: antibody\_sales\_us@bio-rad.com

Email: antibody\_sales\_uk@bio-rad.com

Fax: +49 (0) 89 8090 95 50

Email: antibody\_sales\_de@bio-rad.com

From March 15, 2021, we will no longer supply printed datasheets with our products. Look out for updates on how to access your digital version at bio-rad-antibodies.com 'M351210:190315'

#### Printed on 09 Feb 2021

© 2021 Bio-Rad Laboratories Inc | Legal | Imprint