

Datasheet: VMA00013

Description:	HUMAN ANTI Ku70
Specificity:	Ku70
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	HuCAL Fab bivalent
Quantity:	100 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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 dependent on sample type.

Target Species

Human

Product Form

A bivalent human recombinant Fab selected from the HuCAL GOLD phage display library, expressed in *E. coli*. 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

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Immunogen

Human Ku70 - N1 fusion protein

External Database Links	<p>UniProt: P12956 Related reagents</p> <p>Entrez Gene: 2547 XRCC6 Related reagents</p>
Synonyms	G22P1
Specificity	<p>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.</p> <p>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).</p> <p>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.</p>
Western Blotting	Anti Ku70 antibody detects a band of approximately 70 kDa in HeLa cell lysates.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<p>PrecisionAb is a trademark of Bio-Rad Laboratories.</p> <p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.</p>
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00013 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [HRP](#)

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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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