

## Datasheet: MCA3127Z

<b>Description:</b>	MOUSE ANTI HUMAN Ku70:Preservative Free
<b>Specificity:</b>	Ku70
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4C2-1A6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			1 - 5 ug/ml
ELISA	▪			1 - 5 ug/ml
Western Blotting	▪			1 - 5 ug/ml
Immunofluorescence	▪			5 - 20 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 recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein</b>	Ig concentration 0.5 mg/ml

## Concentrations

**Immunogen** Recombinant protein corresponding to aa 1 - 610 of human Ku70 conjugated to glutathione S-transferase (GST).

## External Database

### Links

#### UniProt:

[P12956](#) [Related reagents](#)

#### Entrez Gene:

[2547](#) XRCC6 [Related reagents](#)

**Synonyms** G22P1

**RRID** AB\_2219031

**Fusion Partners** Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.

**Specificity** **Mouse anti Human Ku70 antibody, clone 4C2-1A6** recognizes human X-ray repair cross-complementing protein 6 (XRCC6), also known as Ku70, Lupus Ku autoantigen protein p70, CTC box-binding factor 75 kDa subunit or ATP-dependent DNA helicase 2 subunit 1. Ku70 is a 609 amino acid ~70 kDa ATP dependent helicase involved in chromosome translocation ([UniProt: P12956](#)).

### Histology Positive Control Tissue

Human breast cancer.

### Western Blotting

Mouse anti Human Ku70 antibody, clone 4C2-1A6 detects a band of ~70 kDa in western blotting using lysates from either C32 cell lines or XRCC6-transfected 293T cell lines.

### References

1. Slupianek, A. *et al.* (2011) BCR/ABL Stimulates WRN to Promote Survival and Genomic Instability. [Cancer Res. 71: 842-51.](#)

### Storage

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee

12 months from date of despatch

### Health And Safety Information

Material Safety Datasheet documentation #10162 available at:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

### Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)

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