

## Datasheet: MCA3127Z

**BATCH NUMBER 151214**

|                      |   |
|----------------------|---|
| <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 Concentrations</b>    | Ig concentration 0.5 mg/ml   |
| <b>Immunogen</b>                         | Recombinant protein corresponding to aa 1 - 610 of human Ku70 conjugated to glutathione S-transferase (GST).   |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">P12956</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">2547</a>    XRCC6    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                          | G22P1  |
| <b>RRID</b>                              | AB_2219031   |
| <b>Fusion Partners</b>                   | Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.  |
| <b>Specificity</b>                       | <b>Mouse anti Human Ku70 antibody, clone 4C2-1A6</b> 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 ( <a href="#">UniProt: P12956</a> ). |
| <b>Histology Positive Control Tissue</b> | Human breast cancer.   |
| <b>Western Blotting</b>                  | 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.   |
| <b>References</b>                        | 1. Slupianek, A. <i>et al.</i> (2011) BCR/ABL Stimulates WRN to Promote Survival and Genomic Instability. <a href="#">Cancer Res. 71: 842-51.</a>  |
| <b>Storage</b>                           | Store at -20°C only.<br>Storage in frost-free freezers is not recommended.<br>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.   |
| <b>Guarantee</b>                         | 12 months from date of despatch  |
| <b>Health And Safety Information</b>     | Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA3127Z">https://www.bio-rad-antibodies.com/SDS/MCA3127Z</a><br>10162  |
| <b>Regulatory</b>                        | For research purposes only   |

## Related Products

## Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto: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](https://bio-rad-antibodies.com/datasheets)

'M367566:200529'

Printed on 12 Aug 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)