Datasheet: MCA3127Z

Description:	MOUSE ANTI HUMAN Ku70:Preservative Free
Specificity:	Ku70
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	4C2-1A6
Isotype:	IgG1
Quantity:	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.

	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.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	Ig concentration 0.5 mg/ml
Immunogen	Recombinant protein corresponding to aa 1 - 610 of human Ku70 conjugated to glutathione S-transferase (GST).
External Database	**UniProt:**

Links	P12956 Related reagents **Entrez Gene:** 2547 XRCC6 Related reagents
Synonyms	G22P1
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^{o}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.
Shelf Life	18 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 (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC

Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: 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

Europe
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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