Datasheet: MCA2708

Description:	MOUSE ANTI HUMAN Ku80
Specificity:	Ku80
Other names:	XRCC5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-54
Isotype:	IgG2a
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human T lymphocytes.
External Database Links	**UniProt:**

P13010 Related reagents

Entrez Gene:

7520 XRCC5 Related reagents

Synonyms	G22P2
Specificity	**Mouse anti Human Ku80 antibody, clone MEM-54** recognizes the 80 kDa subunit of human Ku protein, an evolutionarily conserved nuclear ATP-dependent DNA helicase, involved in a major proportion of DNA repair and in V(D)J recombination. The Ku protein, originally described as an autoantigen, exists as a tightly associated heterodimer consisting of a 70 kDa (Ku70) and 80 kDa (Ku80) subunit which binds to DNA double-strand break ends (DSB). DNA bound Ku recruits the large catalytic subunit DNA-PKcs to form the DNA-dependent protein kinase complex DNA-PK, facilitating DNA repair by the non-homologous end-joining (NHEJ) pathway. Mouse anti Human Ku80 antibody, clone MEM-54 is suitable for use in western blotting (Jayaram *et al.* 2008).
References	1. Jayaram, S. *et al.* (2008) Loss of DNA ligase IV prevents recognition of DNA by double-strand break repair proteins XRCC4 and XLF. Nucleic Acids Res. 36: 5773-86. 2. Krais, A.M. *et al.* (2011) CHRNA5 as negative regulator of nicotine signaling in normal and cancer bronchial cells: effects on motility, migration and p63 expression. Carcinogenesis. 32 (9): 1388-95.
Further Reading	1. Koike, M. (2002) Dimerization, translocation and localization of Ku70 and Ku80 proteins. J Radiat Res. 43 (3): 223-36.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. 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 #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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
Human Anti Mouse IgG2a (HCA037...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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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