Datasheet: AHP1391

Description:	GOAT ANTI HUMAN Ku80
Specificity:	Ku80
Other names:	XRCC5
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
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	▪			1/16,000
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.3ug/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.

Target Species

Human

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to human Ku80 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

0.02% Sodium Azide (NaN_3)
0.5% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.5mg/ml

Immunogen

Peptide sequence C-SLAKKDEKTDTLED from the internal region of Ku80 (NP_066964.1).

External Database Links

UniProt:

P13010 Related reagents

	Entrez Gene: 7520 XRCC5 Related reagents
Synonyms	G22P2
Specificity	**Goat anti Human Ku80 antibody** 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.
Western Blotting	AHP1391 detects a band of approximately 80-85kDa in HeLa cell lysates. An additional 75kDa band of unknown origin may be observed.
References	1. Koike, M. (2002) Dimerization, translocation and localization of Ku70 and Ku80 proteins. J Radiat Res. 43 (3): 223-36. 2. Dedieu, S. *et al.* (2010) The cytoprotective drug amifostine modifies both expression and activity of the pro-angiogenic factor VEGF-A. BMC Med. 8:19. 3. Slupianek, A. *et al.* (2011) BCR/ABL Stimulates WRN to Promote Survival and Genomic Instability. Cancer Res. 71: 842-51.
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 #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) FITC, HRP

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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