

## Datasheet: AHP1391

<b>Description:</b>	GOAT ANTI HUMAN Ku80
<b>Specificity:</b>	Ku80
<b>Other names:</b>	XRCC5
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<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
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antiserum to human Ku80 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Peptide sequence C-SLAKKDEKDTLED from the internal region of Ku80 (NP_066964.1).
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P13010</a> <a href="#">Related reagents</a>

**Entrez Gene:**[7520](#) [XRCC5](#) [Related reagents](#)

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**Synonyms** G22P2

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**RRID** AB\_2218624

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**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.

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**Western Blotting** AHP1391 detects a band of approximately 80-85kDa in HeLa cell lysates. An additional 75kDa band of unknown origin may be observed.

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**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.](#)

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**Storage** Store at +4°C or at -20°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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10058 available at:  
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

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

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