

Product datasheet

Anti-Ku70 + Ku80 antibody - C-terminal ab166822

[3 Images](#)

Overview

Product name	Anti-Ku70 + Ku80 antibody - C-terminal
Description	Rabbit polyclonal to Ku70 + Ku80 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to a region within the C terminal of Human Ku70 + Ku80 (P12956, P13010).
Positive control	LOVO cell extracts; Human kidney tissue; A549 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.88% Sodium chloride</p> <p>without Mg²⁺, Ca²⁺</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab166822 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 70, 82 kDa.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/500.

Target

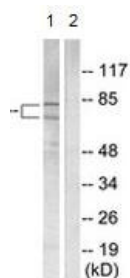
Relevance

The Ku autoantigen is a heterodimer of 70kDa (p70) and 80kDa (p80) proteins. The p70 / p80 dimer is important for function of a 460kDa DNA-dependent protein kinase that phosphorylates certain transcription factors, including Sp1, Oct-1, p53, and SV40 large T antigen in vitro. The Ku protein plays a role in cell signaling, proliferation, DNA repair, replication, transcriptional activation, and apoptosis.

Cellular localization

Nuclear

Images



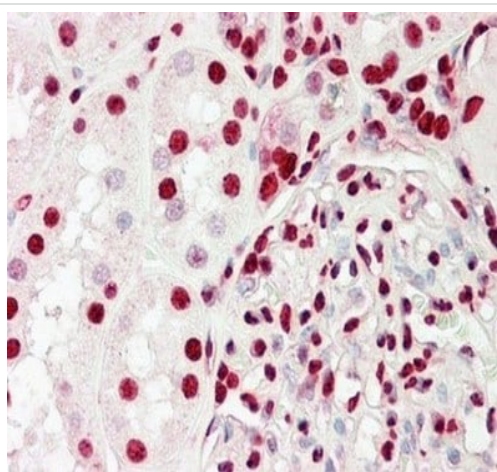
Western blot - Anti-Ku70 + Ku80 antibody - C-terminal (ab166822)

All lanes : Anti-Ku70 + Ku80 antibody - C-terminal (ab166822) at 1/500 dilution

Lane 1 : LoVo cell lysate

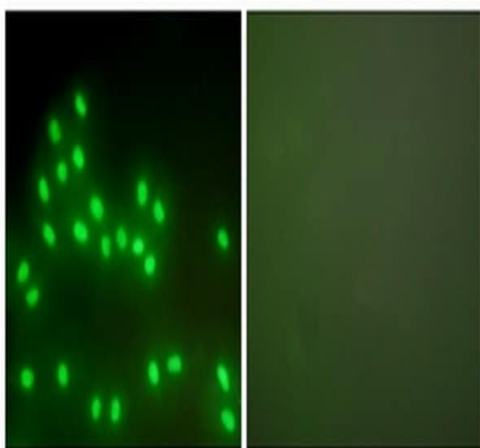
Lane 2 : LoVo cell lysate with synthesized peptide

Predicted band size: 70, 82 kDa



Immunohistochemical analysis of formalin fixed, paraffin embedded Human kidney tissue labeling Ku70 + Ku80 with ab166822 at 5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ku70 + Ku80 antibody - C-terminal (ab166822)



Immunofluorescence analysis of A549 cells labeling Ku70 + Ku80 with ab166822 at 1/100. The panel on the right is treated with the synthesized peptide.

Immunocytochemistry/ Immunofluorescence - Anti-Ku70 + Ku80 antibody - C-terminal (ab166822)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

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