



## Human Ku p70, p80 [His] (DAG4847)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

Species	Human
Conjugate	His
Applications	WB, ELISA
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements
Size	50 µg
Preservative	None
Storage	2-8°C short term, -20°C long term

### BACKGROUND

Introduction	<p>Ku antigen consists of two polypeptides (70 kDa and 80 kDa; the p80 subunit is occasionally called p86). The Ku heterodimer provides DNA-binding and regulatory functions to DNA-dependent protein kinase which is a central enzyme for DNA recombination processes in eucaryotic cells. The Ku protein plays important roles in multiple nuclear processes including DNA repair, V(D)J recombination, telomere maintenance, and the regulation of specific gene transcription. Antibodies to Ku were originally reported in scleroderma-polymyositis overlap syndrome (up to 20% of patients) but have also been detectable in about 20% of patients with primary pulmonary hypertension (as a complication of overlap), in 5-10% of SLE and MCTD patients, and in up to 20% of patients with primary Sjgren syndrome.</p>
Keywords	Ku; Eukaryotic Ku; p70, p80 subunits