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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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# TECHNICALLY *Speaking*

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## Recombinant Human Ku(P70/P80) rHuKuP70/P80

**CLPRO397**  
**CLPRO397-2**  
**Lot:**

### Description:

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 Sjögren's syndrome.

In IIF using HEp-2 cells, Ku-positive sera yield a dense, fine granular pattern with nucleolar staining that is typical but not specific for anti-Ku. Detection of Ku antibodies by Western blot may bear false-negative results since the main reactive epitope on the p70/p80 heterodimer is conformation-dependent. Recombinant Human KuP70/P80 produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 43,591 dalton rhKu(P70/P80) is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.

### Presentation:

5µg (**CLPRO397**) or 20µg (**CLPRO397-2**) recombinant human KuP70/P80 is supplied at a concentration of 0.9mg/ml in 16mM HEPES buffer pH8, 250mM sodium chloride, and 20% glycerol.

### Source:

Sf9 insect cells.

### Immunological functions:

1. Binds IgG-type human auto-antibodies.
2. Standard ELISA test (checker-board analysis of positive/negative sera panels including CDC international reference sera).

### Applications:

Western Blot with monoclonal anti-hexa-His-tag antibody & anti-Ku autoantibody-positive patient sera.

Continued Overleaf...

For more information or to place an order please contact...

**CEDARLANE®**  
**LABORATORIES LIMITED**



**toll free: 1-800-268-5058**  
**in North America**

phone: (905) 878-8891 • fax: (905) 878-7800

5516 - 8th Line, R.R.#2, Hornby, Ontario, CANADA L0P 1E0

or visit our website for a list of our international distributors including contact information  
website: [www.cedarlanelabs.com](http://www.cedarlanelabs.com) • e-mail: [info@cedarlanelabs.com](mailto:info@cedarlanelabs.com)

**Coating concentration:**

0.2-0.6 µg/ml (depending on the type of ELISA plate and coating buffer).  
Suitable for biotinylation and iodination.

**Storage Conditions:**

Store at 4°C if entire vial will be used within 2-4 weeks.  
Store, frozen at -20°C for longer periods of time.  
Avoid multiple freeze-thaw cycles.

**Purity:**

Greater than 90% (SDS-PAGE).

**For Research Use Only.**

JV 09/19/06