

## Ku (p70/p80)

### Antigen Specification

**Product Number: 17300**

**Description:**

Human Ku protein, composed of p70 and p80 subunits (p80 is also called p86); the subunits can associate to form a heterodimer.  
Recombinant antigen for in vitro research and manufacturing use only.

**Immunological function:**

Binds IgG-type human auto-antibodies.

**Origin:**

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

**Expression construct:**

cDNAs coding for full-length chains for the Ku p70 and p80 subunits fused to a hexa-histidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 85%); Western blot with i: anti-Ku autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

**Calculated molecular weight:**

p70 subunit: 71 kDa  
p80 subunit: 84 kDa

**Calculated isoelectric point:**

p70 subunit: pH 6.3  
p80 subunit: pH 5.7  
p70/p80 heterodimer: around pH 6.0

**Immunological tests/Functionality:**

Standard ELISA test (checkerboard analysis of positive/negative samples); immunodot analyses with positive/negative samples.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.  
Storage conditions: -70°C or below.  
Repeated freeze/thaw cycles should be avoided.

**Coating concentration:**

0.2-0.6 µg/mL (depending on the type of ELISA plate and coating buffer).  
Suitable for labeling of functional groups.

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