

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 research use or manufacturing 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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