

RK05695

Leader in Biomolecular Solutions for Life Science



## [One Step] RAN Antibody Kit

Catalog No.: RK05695

### Basic Information

#### Applications

#### Cross-Reactivity

Mouse, Rat

#### Observed MW

24kDa

#### Calculated MW

24kDa

#### Category

Antibody kit

### Background

RAN (ras-related nuclear protein) is a small GTP binding protein belonging to the RAS superfamily that is essential for the translocation of RNA and proteins through the nuclear pore complex. The RAN protein is also involved in control of DNA synthesis and cell cycle progression. Nuclear localization of RAN requires the presence of regulator of chromosome condensation 1 (RCC1). Mutations in RAN disrupt DNA synthesis. Because of its many functions, it is likely that RAN interacts with several other proteins. RAN regulates formation and organization of the microtubule network independently of its role in the nucleus-cytosol exchange of macromolecules. RAN could be a key signaling molecule regulating microtubule polymerization during mitosis. RCC1 generates a high local concentration of RAN-GTP around chromatin which, in turn, induces the local nucleation of microtubules. RAN is an androgen receptor (AR) coactivator that binds differentially with different lengths of polyglutamine within the androgen receptor. Polyglutamine repeat expansion in the AR is linked to Kennedy's disease (X-linked spinal and bulbar muscular atrophy). RAN coactivation of the AR diminishes with polyglutamine expansion within the AR, and this weak coactivation may lead to partial androgen insensitivity during the development of Kennedy's disease.

### Product Information

#### Source

Rabbit

#### Purification

#### Storage

Avoid repeated freeze-thaw cycles.

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Component & Recommended Dilutions

Catalog No.	Product Name	Dilutions
RK05695-1	Ran Rabbit pAb	24kDa
RK05695-2	HRP-conjugated Goat anti-Rabbit IgG (H+L)	24kDa

### Immunogen Information

#### Gene ID

5901

#### Swiss Prot

P62826

#### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-216 of human Ran (NP\_006316.1).

#### Synonyms

TC4; Gsp1; ARA24; Ran