

RAN monoclonal antibody

Catalog: MB22136

Host: Mouse

Reactivity: Human,Rat,Monkey

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 co-activation 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:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

24.4kDa

Swiss-Prot:

P62826

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

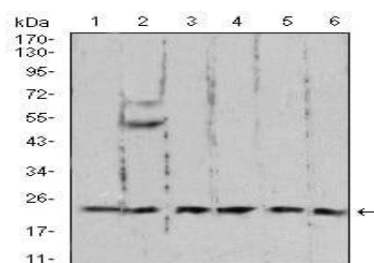
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

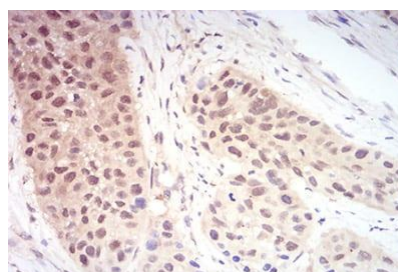
Isotype:

Mouse IgG1

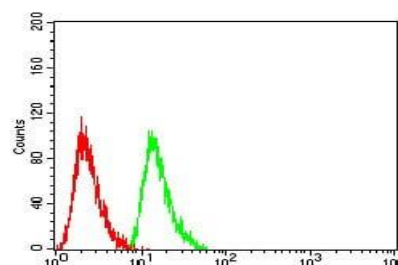
DATA:



Western blot analysis using RAN mouse mAb against A431 (1), C6 (2), Jurkat (3), HeLa (4), COS7 (5), and Jurkat (6) cell lysate.



Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using RAN mouse mAb with DAB staining.



Flow cytometric analysis of HeLa cells using RAN mouse mAb (green) and negative control (red).

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PRODUCT DATA SHEET

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Note:

For research use only, not for use in diagnostic procedure.

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