RAN Antibody

Catalog No: #31155

Package Size: #31155-1 50ul #31155-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

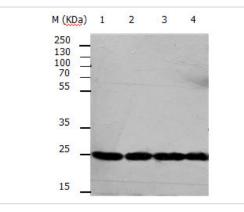
Description

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Product Name	RAN Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total RAN protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from 200-216 amino acids of Human Ras-related nuclear
	protein
Target Name	RAN
Other Names	Ras-related nuclear protein, TC4, Gsp1, ARA24
Accession No.	Swiss-Prot:P62826Gene ID:5901;
Uniprot	P62826
GenelD	5901;
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

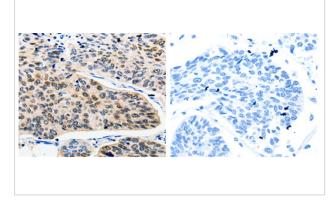
Application Details

ELISA: 1:1000-1:5000 Western blotting: 1:200-1:1000 Immunohistochemistry: 1:25-1:100	Predicted MW: 25kd
	ELISA: 1:1000-1:5000
Immunohistochemistry: 1:25-1:100	Western blotting: 1:200-1:1000
	Immunohistochemistry: 1:25-1:100

Images



Gel: 10%SDS-PAGE Lane1: Hela cell lysate Lane2: NIH/3T3 cell lysate Lane3: HepG2 cell lysate Lane4: Mouse testis tissue lysate Lysates: 30ug per lane Primary antibody: 1/200 dilution Secondary antibody: Donkey anti Rabbit IgG - H&L (HRP) at 1/3000 dilution Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using 31155(RAN Antibody) at dilution 1/25, on the right is treated with the synthetic peptide.

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.

Note: This product is for in vitro research use only