

RAN Recombinant Mouse mAb

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Catalog # AP94570

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG2b/Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm. Melanosome.
SIMILARITY	Belongs to the small GTPase superfamily. Ran family.
SUBUNIT	Monomer. Also forms a complex with CHC1 and interacts with the AR N-terminal poly-Gln region. The interaction with AR is inversely correlated with the poly-Gln length. Part of a complex consisting of RANBP9, Ran, DYRK1B and COPS5. Found in a nuclear export complex with RANBP3 and XPO1. Component of a nuclear export receptor complex composed of KPNB1, Ran, SNUPN and XPO1. Found in a trimeric export complex with SNUPN, Ran and XPO1. Interacts with RANBP10. In case of HIV-1 infection, found in a complex with HIV-1 Rev, RNAs containing a Rev response element (RRE) and XPO1. Found in a complex with HTLV-1 Rex, RANBP3 and XPO1. Interacts in its GTP-bound form with BIRC5/survivin at S and M phases of the cell cycle. Interacts with TERT; the interaction requires hydrogen peroxide-mediated phosphorylation of TERT and transports TERT to the nucleus. Interacts with MAD2L2. Interacts with RANBP10 (By similarity). Interacts with VRK1 and VRK3. Interacts with isoform 1 and isoform 2 of VRK2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GTP-binding protein involved in nucleocytoplasmic transport. Required for the import of protein into the nucleus and also for RNA export. Involved in chromatin condensation and control of cell cycle (By similarity). The complex with BIRC5/ survivin plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules.

Additional Information

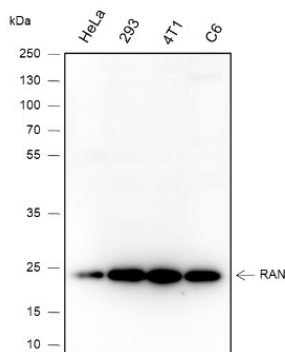
Target/Specificity	Expressed in a variety of tissues.
Dilution	WB=1:500-1:1000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50,IF=0
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

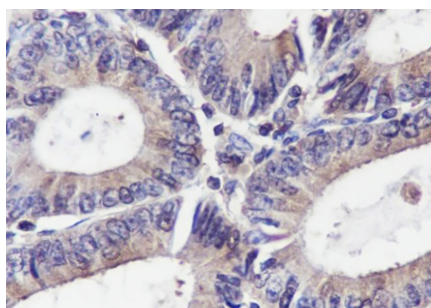
Background

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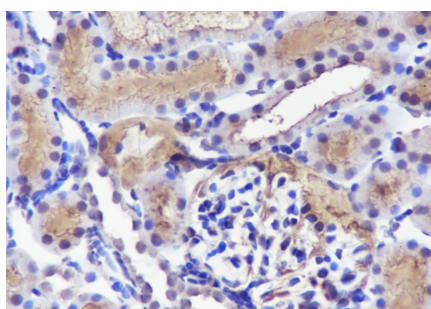
Images



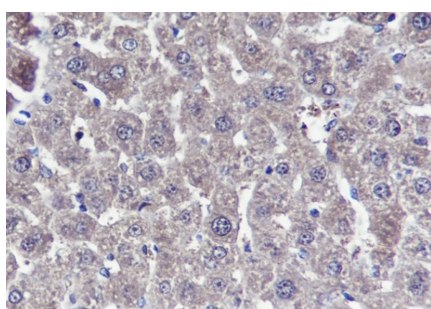
Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:1000 Primary ab incubation condition: 4°C overnight
Secondary ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: HeLa, 293, 4T1, C6 Protein loading quantity: 20 µg
Exposure time: 60 s Predicted MW: 24 kDa Observed MW: 24 kDa



Tissue: Human colon cancer Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100
Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Mouse)(sp-0024)
Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94570

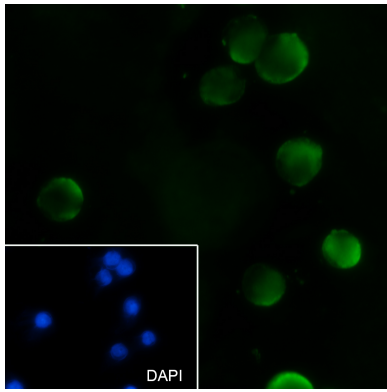


Tissue: Rat kidney Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Mouse)(sp-0024)
Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94570



Tissue: Mouse liver Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:100 Primary ab incubation condition: 1 hour at room temperature Secondary ab: SP Kit(Mouse)(sp-0024)
Counter stain: Hematoxylin (Blue) Comment: Color brown is the positive signal for AP94570

Cell line: Jurkat Fixative: 100% Ice-cold methanol Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 4°C overnight



Secondary ab: Goat Anti-Rabbit IgG Nuclear counter stain: DAPI (Blue) Comment: Color green is the positive signal for AP94570

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.