

Basic Information

Product Name	Anti-RRS1 Antibody	
Gene Name	RRS1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human RRS1 recombinant protein (Position: Q33-K266). Human RRS1 shares 93.2% and 93.6% amino acid (aa) sequence identity with mouse and rat RRS1, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	41 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

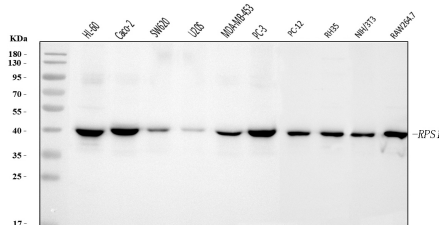
Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Ribosome biogenesis regulatory protein homolog is a protein that in humans is encoded by the RRS1 gene. RRS1 involved in ribosomal large subunit assembly and may regulate the localization of the 5S RNP/5S ribonucleoprotein particle to the nucleolus.

Selected Validation Data



Western blot analysis of RRS1 using anti-RRS1 antibody (A04418-3).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: HL-60 whole cell lysates,

Lane 2: Caco-2 whole cell lysates,

Lane 3: SW620 whole cell lysates,

Lane 4: U2OS whole cell lysates,

Lane 5: MDA-MB-453 whole cell lysates,

Lane 6: PC-3 whole cell lysates,

Lane 7: PC-12 whole cell lysates,

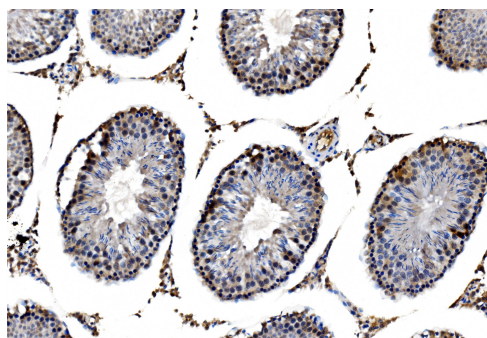
Lane 8: RH35 whole cell lysates,

Lane 9: NIH/3T3 whole cell lysates,

Lane 10: RAW264.7 whole cell lysates.

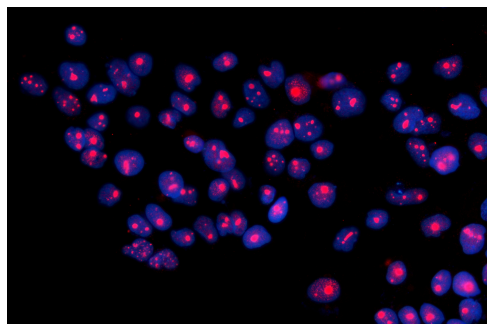
After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-RRS1 antigen affinity purified polyclonal antibody (A04418-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for RRS1 at approximately 41 kDa. The expected band size for RRS1 is at 41 kDa.



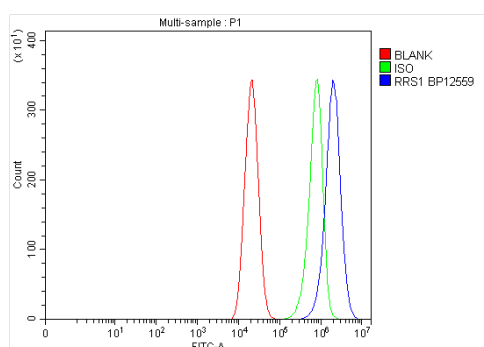
IHC analysis of RRS1 using anti-RRS1 antibody (A04418-3).

RRS1 was detected in a paraffin-embedded section of rat testis tissue. The tissue section was incubated with rabbit anti-RRS1 Antibody (A04418-3) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of RRS1 using anti-RRS1 antibody (A04418-3).

RRS1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-RRS1 Antibody (A04418-3) at a dilution of 1:100. Dylight594-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1142) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of Caco-2 cells using anti-RRS1 antibody (A04418-3).

Overlay histogram showing Caco-2 cells stained with A04418-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RRS1 Antibody (A04418-3) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.