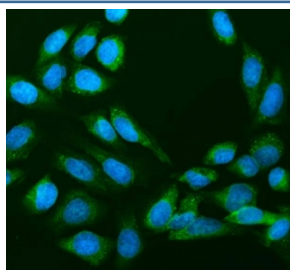


40S ribosomal protein S14 Antibody / RPS14 (RQ7951)

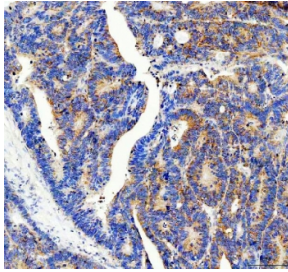
Catalog No.	Formulation	Size
RQ7951	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

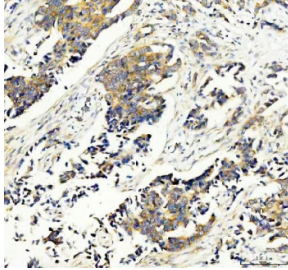
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P62263
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml Immunoprecipitation : 2ug antibody/500ug lysate Direct ELISA : 0.1-0.5ug/ml
Limitations	This 40S ribosomal protein S14 antibody is available for research use only.



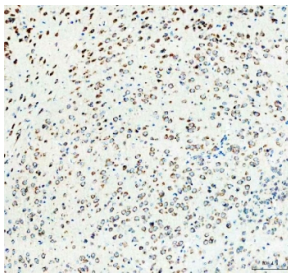
Immunofluorescent staining of FFPE human U-2 OS cells with 40S ribosomal protein S14 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



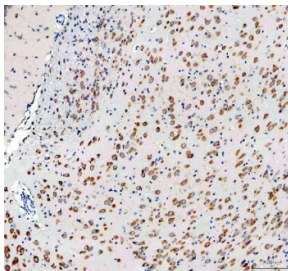
IHC staining of FFPE human colon cancer tissue with 40S ribosomal protein S14 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



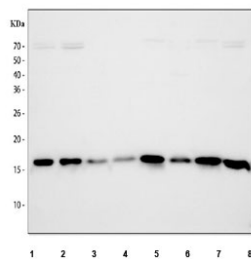
IHC staining of FFPE human breast cancer tissue with 40S ribosomal protein S14 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



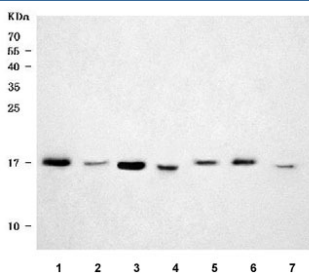
IHC staining of FFPE mouse brain tissue with 40S ribosomal protein S14 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



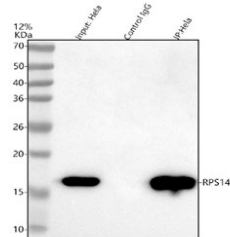
IHC staining of FFPE rat brain tissue with 40S ribosomal protein S14 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



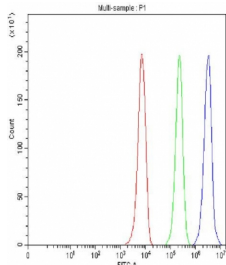
Western blot testing of 1) human HeLa, 2) human HepG2 3) human HCCT, 4) human HCCT, 5) rat liver, 6) rat RH35, 7) mouse liver and 8) mouse HEPA1-6 cell lysate with 40S ribosomal protein S14 antibody. Predicted molecular weight ~16 kDa.



Western blot testing of 1) human HeLa, 2) human HCCT, 3) human HepG2, 4) rat liver, 5) rat RH35, 6) mouse liver and 7) mouse HEPA1-6 cell lysate with 40S ribosomal protein S14 antibody. Predicted molecular weight ~16 kDa.



Immunoprecipitation of 40S ribosomal protein S14 protein from 500ug of human HeLa whole cell lysate with 2ug of 40S ribosomal protein S14 antibody.



Flow cytometry testing of fixed and permeabilized human HepG2 cells with 40S ribosomal protein S14 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= 40S ribosomal protein S14 antibody.

Description

40S ribosomal protein S14 is a protein that in humans is encoded by the RPS14 gene. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S11P family of ribosomal proteins. It is located in the cytoplasm. Transcript variants utilizing alternative transcription initiation sites have been described in the literature. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. In Chinese hamster ovary cells, mutations in this gene can lead to resistance to emetine, a protein synthesis inhibitor. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.

Application Notes

Optimal dilution of the 40S ribosomal protein S14 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E11-K143) was used as the immunogen for the 40S ribosomal protein S14 antibody.

Storage

After reconstitution, the 40S ribosomal protein S14 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.