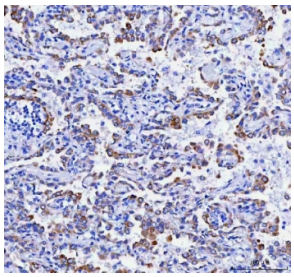
Ribosome binding protein 1 Antibody / RRBP1 (RQ8626)

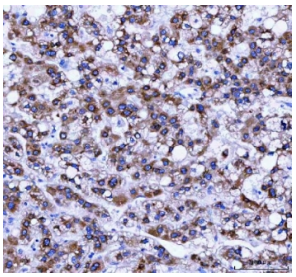
Catalog No.	Formulation	Size
RQ8626	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

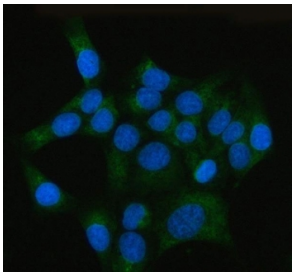
Availability	1-3 days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9P2E9
Localization	Cytoplasm (ER)
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This Ribosome binding protein 1 antibody is available for research use only.



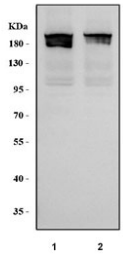
IHC staining of FFPE human lung cancer tissue with Ribosome binding protein 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



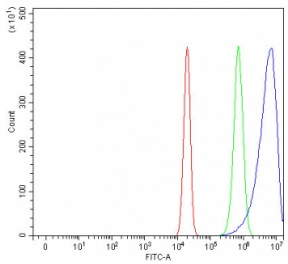
IHC staining of FFPE human liver cancer tissue with Ribosome binding protein 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with Ribosome binding protein 1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HepG2 and 2) Caco-2 cell lysate with Ribosome binding protein 1 antibody. Expected molecular weight ~180 kDa.



Flow cytometry testing of fixed and permeabilized human U-2 OS cells with Ribosome binding protein 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Ribosome binding protein 1 antibody.

Description

Ribosome-binding protein 1, also referred to as p180, is a protein that in humans is encoded by the RRBP1 gene. It is mapped to 20p12.1. This gene encodes a ribosome-binding protein of the endoplasmic reticulum (ER) membrane. Studies suggest that this gene plays a role in ER proliferation, secretory pathways and secretory cell differentiation, and mediation of ER-microtubule interactions. Alternative splicing has been observed and protein isoforms are characterized by regions of N-terminal decapeptide and C-terminal heptad repeats. Splicing of the tandem repeats results in variations in ribosome-binding affinity and secretory function. The full-length nature of variants which differ in repeat length has not been determined. Pseudogenes of this gene have been identified on chromosomes 3 and 7, and RRBP1 has been excluded as a candidate gene in the cause of Alagille syndrome, the result of a mutation in a nearby gene on chromosome 20p12.

Application Notes

Optimal dilution of the Ribosome binding protein 1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids Q1289-D1400) was used as the immunogen for the Ribosome binding protein 1 antibody.

Storage

After reconstitution, the Ribosome binding protein 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.