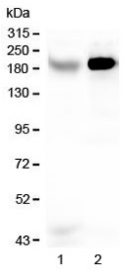
# RRBP1 Antibody / Ribosome binding protein 1 (RQ4954)

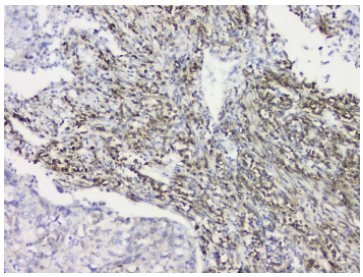
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ4954 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

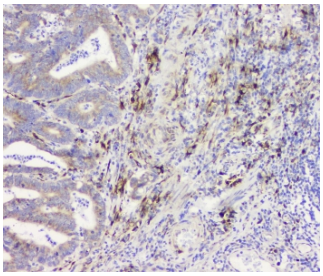
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | Q9P2E9 |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml<br>Flow Cytometry: 1-3ug/10^6 cells<br>Immunofluorescence/Immunocytochemistry: 2-4ug/ml |
| **Limitations** | This RRBP1 antibody is available for research use only. |



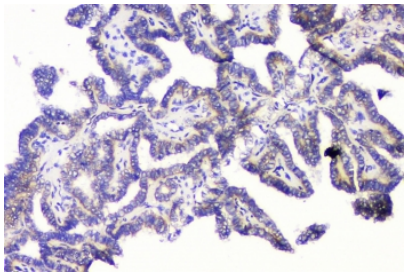

Western blot testing of human 1) Caco-2 and 2) HepG2 lysate with RRBP1 antibody at 0.5ug/ml. Expected molecular weight ~180 kDa.



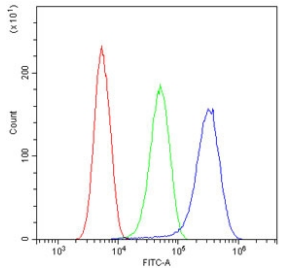
IHC staining of FFPE human lung cancer with RRBP1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



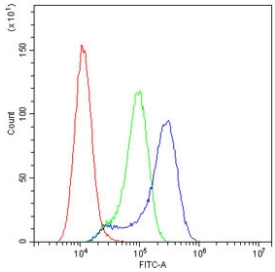
IHC staining of FFPE human intestinal cancer with RRBP1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



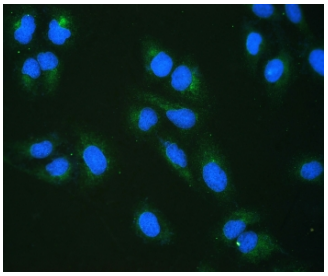
IHC staining of FFPE human thyroid cancer with RRBP1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.




Flow cytometry testing of human SiHa cells with RRBP1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RRBP1 antibody.




Flow cytometry testing of human A549 cells with RRBP1 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RRBP1 antibody.



IF/ICC staining of FFPE human U-2 OS cells with RRBP1 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

## 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 RRBP1 antibody should be determined by the researcher.

## Immunogen

Amino acids EKEKKLTSDLGRAATRLQELLKTTQEQLAREKDTVKKLQEQLEKAED from the human protein were used as the immunogen for the RRBP1 antibody.

## Storage

After reconstitution, the RRBP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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