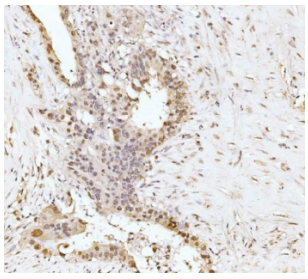
# RRP4 Antibody / EXOSC2 (RQ6623)

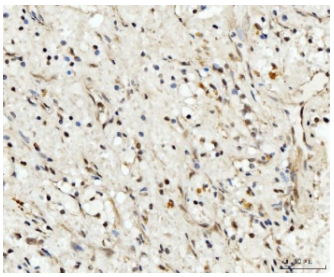
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6623 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

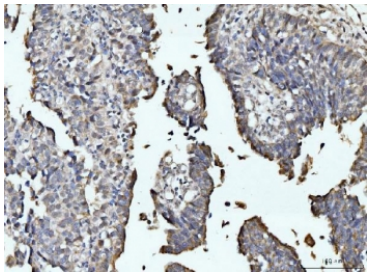
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q13868 |
| **Localization** | Cytoplasmic, nuclear |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 2-5ug/ml<br>Flow cytometry: 1-3ug/million cells<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This RRP4 antibody is available for research use only. |



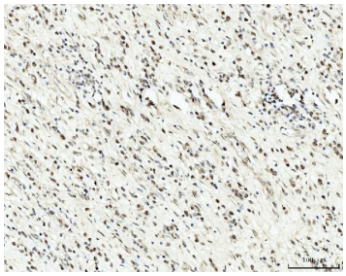
IHC staining of FFPE human appendiceal adenocarcinoma tissue with RRP4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



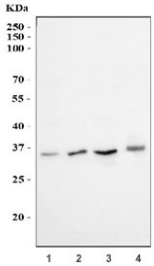
IHC staining of FFPE human renal clear cell carcinoma tissue with RRP4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



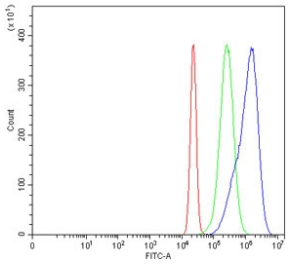
IHC staining of FFPE human colonic adenocarcinoma tissue with RRP4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human gastric tissue with RRP4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of human 1) HeLa, 2) Jurkat, 3) HEK293 and 4) HepG2 cell lysate with RRP4 antibody. Predicted molecular weight ~33 kDa.




Flow cytometry testing of human HeLa cells with RRP4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= RRP4 antibody.

## Description

Exosome component 2, also known as Exosome complex component RRP4 and EXOSC2, is a protein which in humans is encoded by the EXOSC2 gene. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snoRNA and snRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. EXOSC2 is a non-catalytic component of the RNA exosome complex that has 3'->5' exoribonuclease

activity and involves in a multitude of cellular RNA processing and degradation events.

## Application Notes

Optimal dilution of the RRP4 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids R62-G293) was used as the immunogen for the RRP4 antibody.

## Storage

After reconstitution, the RRP4 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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