

For Research Use Only

# EXOSC4 Polyclonal antibody

Catalog Number: 15937-1-AP

Featured Product

3 Publications



## Basic Information

### Catalog Number:

15937-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7595

### GenBank Accession Number:

BC002777

### GeneID (NCBI):

54512

### UNIPROT ID:

Q9NPD3

### Full Name:

exosome component 4

### Calculated MW:

26 kDa

### Observed MW:

27 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:400-1:1600

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: HEK-293T cells, Jurkat cells, HeLa cells, SW480 cells, HCT 116 cells, mouse liver tissue, rat liver tissue

IHC: human skin cancer tissue,

IF/ICC: HepG2 cells,

## Background Information

EXOSC4, also named as RRP41 and SKI6, belongs to the RNase PH family. EXOSC4 is a novel component of the human exosome complex. EXOSC4 is the most important RNA processing machinery in maturation and degradation of RNA playing a major role in gene expression regulation (PMID: 29626590). EXOSC4 has 1 isoform with the molecular mass of 27 kDa. However, studies have shown that EXOSC4 can interact with EXOSC2 and EXOSC7, possibly form a complex with the molecular weight of 90 kDa (PMID: 25115889). Recently, EXOSC4 has been found to play important roles in tumorigenesis and development including CRC (PMID: 33075373).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yong-Xia Wang	33075373	Life Sci	WB, IHC
Tobias Moll	36241425	Life Sci Alliance	WB
Tzu-Wei Chuang	26887951	J Biol Chem	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

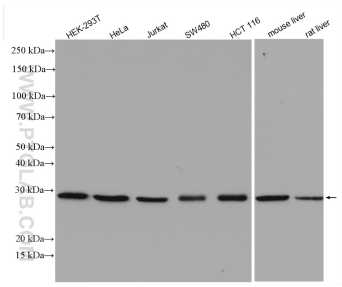
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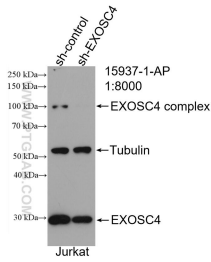
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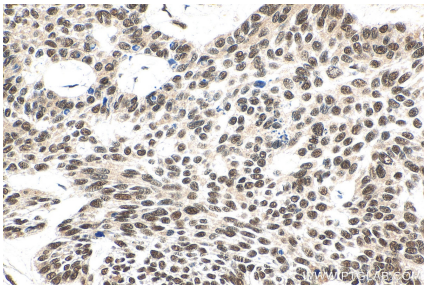
Selected Validation Data



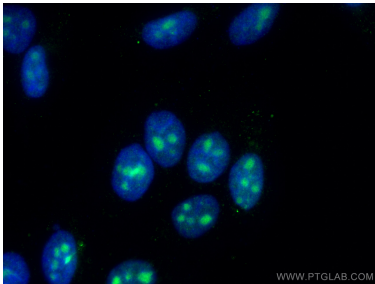
Various lysates were subjected to SDS PAGE followed by western blot with 15937-1-AP (EXOSC4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



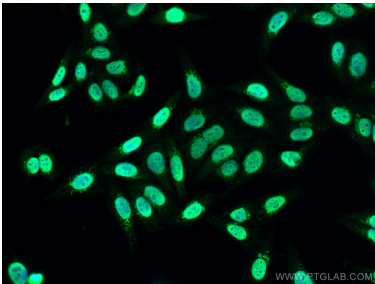
WB result of EXOSC4 antibody (15937-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EXOSC4 transfected Jurkat cells.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 15937-1-AP (EXOSC4 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EXOSC4 antibody (15937-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EXOSC4 antibody (15937-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).