

For Research Use Only

# EXOSC2 Monoclonal antibody

Catalog Number: 66099-1-Ig **6 Publications**



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>66099-1-Ig       | <b>GenBank Accession Number:</b><br>BC000747 | <b>Purification Method:</b><br>Protein A purification                                 |
| <b>Size:</b><br>1800 µg/ml                 | <b>GeneID (NCBI):</b><br>23404               | <b>CloneNo.:</b><br>1G8B1   |
| <b>Source:</b><br>Mouse                    | <b>UNIPROT ID:</b><br>Q13868                 | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:20-1:200<br>IF 1:10-1:100 |
| <b>Isotype:</b><br>IgG2a                   | <b>Full Name:</b><br>exosome component 2     |   |
| <b>Immunogen Catalog Number:</b><br>AG7003 | <b>Calculated MW:</b><br>33 kDa              |   |
|  | <b>Observed MW:</b><br>33 kDa                |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IF/ICC, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : HepG2 cells, HeLa cells, HEK-293 cells, U2OS cells, LNCaP cells, Jurkat cells, K-562 cells<br>IHC : human liver tissue, human skin cancer tissue<br>IF : HepG2 cells, |
| <b>Cited Applications:</b><br>WB   |   |
| <b>Species Specificity:</b><br>human   |   |
| <b>Cited Species:</b><br>human   |   |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |   |

## Background Information

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 [PMID:15346807]. EXOSC2 is a non-catalytic component of the RNA exosome complex that has 3'->5' exonuclease activity and involves in a multitude of cellular RNA processing and degradation events [PMID: 17545563].

## Notable Publications

| Author      | Pubmed ID | Journal                     | Application |
|-------------|-----------|-----------------------------|-------------|
| Tobias Moll | 36241425  | Life Sci Alliance           | WB          |
| Tobias Moll | 35291294  | bioRxiv                     | WB          |
| Rongli Wang | 35784556  | Front Endocrinol (Lausanne) | WB          |

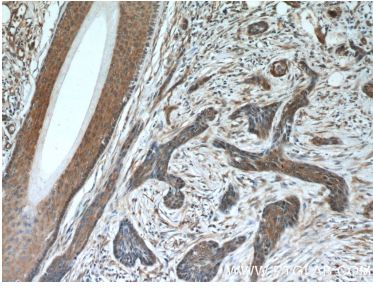
## Storage

**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

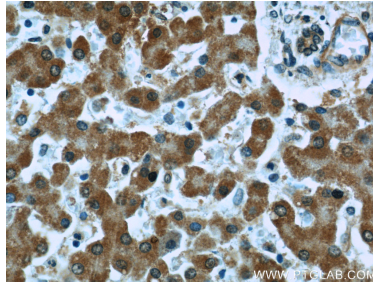
For technical support and original validation data for this product please contact:  
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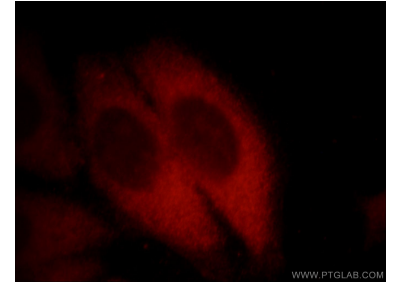
## Selected Validation Data



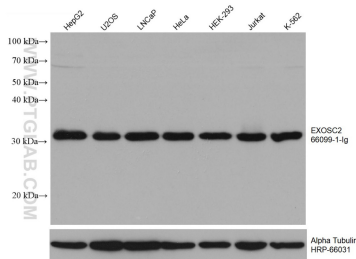
Immunohistochemical analysis of paraffin-embedded human skin cancer slide using 66099-1-Ig (EXOSC2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human liver slide using 66099-1-Ig (EXOSC2 Antibody) at dilution of 1:50.



Immunofluorescent analysis of ( ) fixed HepG2 cells using 66099-1-Ig (EXOSC2 antibody) at dilution of 1:25.



Various lysates were subjected to SDS PAGE followed by western blot with 66099-1-Ig (EXOSC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.