For Research Use Only

# EXOSC3 Polyclonal antibody

Catalog Number:15062-1-AP Featured Product 22 Publications

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## Basic Information

Catalog Number:
15062-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7065

GenBank Accession Number:
BC002437

GeneID (NCBI):
51010

UNIPROT ID:
Q9NQT5

Full Name:
exosome component 3

Calculated MW:
30 kDa

Observed MW:
31 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC: 1:200-1:800

## Applications

Tested Applications:
WB, IF/ICC, IP, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Positive Controls:

WB : A2780 cells, HEK-293T cells, PC-3 cells, NIH/3T3 cells, mouse spleen tissue

IP : A2780 cells,

IF/ICC : PC-3 cells,

## Background Information

RNA exosomes are multi-subunit complexes conserved throughout evolution, and they are emerging as the major cellular machinery for processing, surveillance and turnover of a diverse spectrum of coding and noncoding RNA substrates essential for viability[PMID:22544365]. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts [PMID:11782436]. EXOSC3 is a non-catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and involves in a multitude of cellular RNA processing and degradation events. EXOSC3 as peripheral part of the Exo-9 complex stabilizes the hexameric ring of Rnase PH-domain subunits through contacts with EXOSC9 and EXOSC5 [PMID:21255825].

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Katarzyna Kalisiak | 28204585 | Nucleic Acids Res | WB |
| Katarzyna Kalisiak | 27679475 | Nucleic Acids Res | WB |
| Marta Lloret-Llinares | 30212902 | Nucleic Acids Res | WB |

## Storage

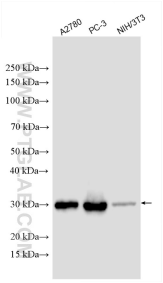
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

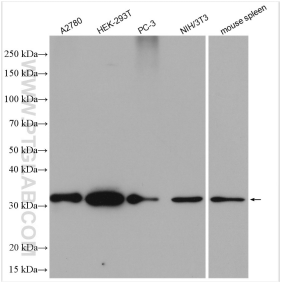
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

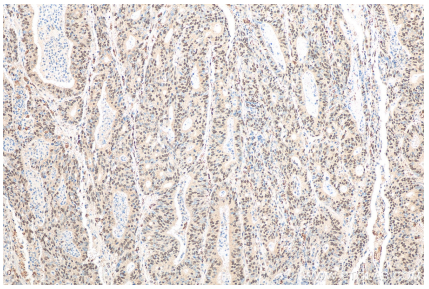
## Selected Validation Data



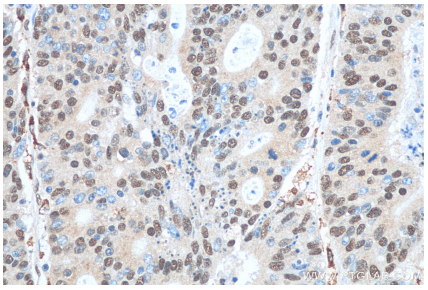

Various lysates were subjected to SDS PAGE followed by western blot with 15062-1-AP (EXOSC3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



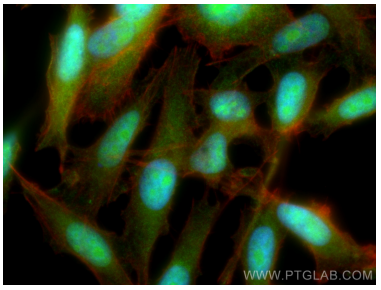

Various lysates were subjected to SDS PAGE followed by western blot with 15062-1-AP (EXOSC3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



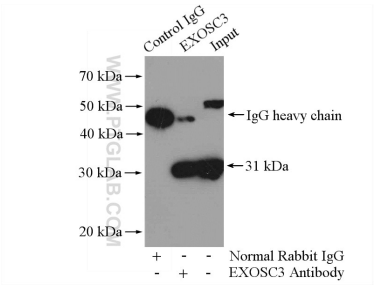
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15062-1-AP (EXOSC3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15062-1-AP (EXOSC3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using EXOSC3 antibody (15062-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).




IP result of anti-EXOSC3 (IP:15062-1-AP, 4ug; Detection:15062-1-AP 1:500) with A2780 cells lysate 800ug.