

EXOSC3 Polyclonal antibody

Catalog Number: 15062-1-AP

Featured Product

12 Publications

Basic Information

Catalog Number:

15062-1-AP

Size:

150ul, Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7065

GenBank Accession Number:

BC002437

GeneID (NCBI):

51010

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 µg for IP and 1:500-1:1000 for WB

IF 1:200-1:800

Applications

Tested Applications:

IF, IP, WB, ELISA

Cited Applications:

IF, WB

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: 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	27679475	Nucleic Acids Res	WB
Katarzyna Kalisiak	28204585	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

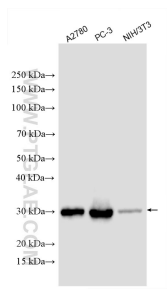
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

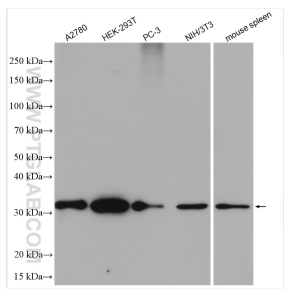
E: proteintech@ptglab.com
W: ptglab.com

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

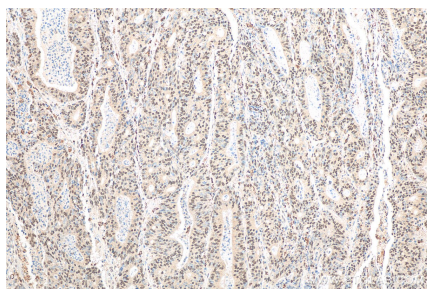
Selected Validation Data



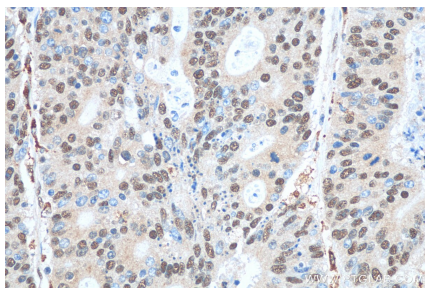
Various lysates were subjected to SDS PAGE followed by western blot with 15062-1-AP (EXOSC3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



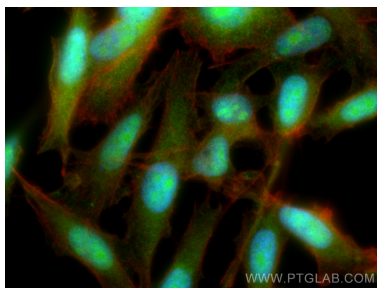
Various lysates were subjected to SDS PAGE followed by western blot with 15062-1-AP (EXOSC3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



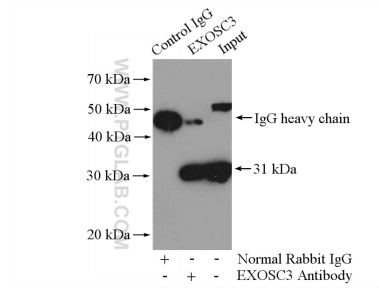
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15062-1-AP (EXOSC3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 AffiniPure 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.