For Research Use Only

EXOSC2 Polyclonal antibody

Catalog Number:14805-1-AP Featured Product 7 Publications

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Basic Information

Catalog Number:
14805-1-AP

Concentration:
350 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6525

GenBank Accession Number:
BC000747

GeneID (NCBI):
23404

UNIPROT ID:
Q13868

Full Name:
exosome component 2

Calculated MW:
33 kDa

Observed MW:
30-33 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:20-1:200

Applications

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

Cited Applications:
WB, IF

Species Specificity:
human

Cited Species:
human, mouse, yeast

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 : HeLa cells, HepG2 cells, Jurkat cells, MCF-7 cells, HEK-293 cells

IP : HeLa cells,

IHC : human skin cancer tissue,

IF/ICC : MCF-7 cells,

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' exoribonuclease activity and involves in a multitude of cellular RNA processing and degradation events [PMID: 17545563].

Notable Publications

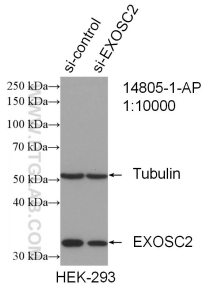
Author	Pubmed ID	Journal	Application
Tobias Moll	36241425	Life Sci Alliance	WB
Hani Goodarzi	27259150	Cell	WB,IF
Jakob Trendel	30528433	Cell	

Storage

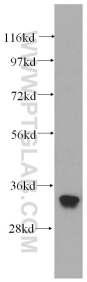
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

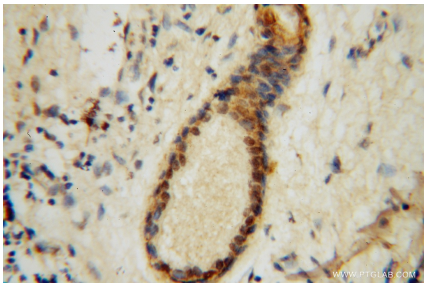
Selected Validation Data



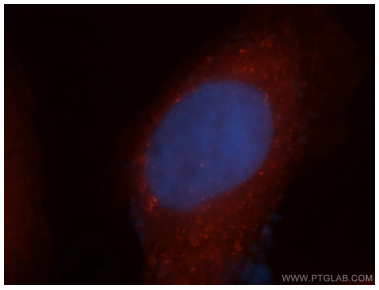
WB result of EXOSC2 antibody (14805-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EXOSC2 transfected HEK-293 cells.



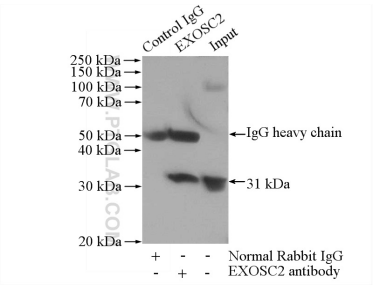
HeLa cells were subjected to SDS PAGE followed by western blot with 14805-1-AP (EXOSC2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin cancer using 14805-1-AP (EXOSC2 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of MCF-7 cells, using EXOSC2 antibody 14805-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-EXOSC2 (IP:14805-1-AP, 4ug; Detection:14805-1-AP 1:1000) with HeLa cells lysate 1080ug.