

For Research Use Only

RPL7 Polyclonal antibody

Catalog Number: 14583-1-AP **6 Publications**



Basic Information

Catalog Number: 14583-1-AP	GenBank Accession Number: BC006095	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 447 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6129	Recommended Dilutions: WB 1:500-1:3000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
Source: Rabbit	Full Name: ribosomal protein L7	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 29 kDa	IF 1:50-1:500
Immunogen Catalog Number: AG6104	Observed MW: 29-30 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : HEK-293 cells, mouse kidney tissue
Cited Applications: IHC, RIP, WB	IP : HEK-293 cells,
Species Specificity: human, mouse, rat	IHC : human skin cancer tissue,
Cited Species: human	IF : HEK-293 cells,

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

Background Information

The mammalian ribosome comprises 79 ribosomal proteins and four rRNAs, which combine in equimolar ratios to form the small (40S) and large (60S) subunits. Ribosome proteins are a direct and critical target of the PI3K pathway in promoting growth.[PMID:15289434]. RPL7 binds to G-rich structures in 28S rRNA, and plays a regulatory role in the translation apparatus, inhibits cell-free translation of mRNAs. In addition, RPL7 is suggested to have a role as an integral part of natural freeze tolerance[PMID: 18706984]. Besides, RPL7 is responsible for its normal ribosome functions including the nuclear targeting, ribosome assembly and translation[PMID:17258209].

Notable Publications

Author	Pubmed ID	Journal	Application
Baiwen Chen	34735883	Biochem Biophys Res Commun	WB,RIP
Phaedra R Theodoridis	33568529	Proc Natl Acad Sci U S A	IHC
Rui Su	35145225	Nat Cell Biol	WB

Storage

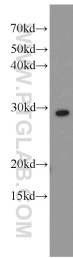
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

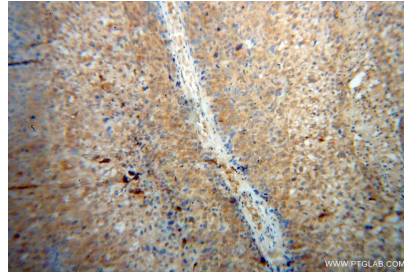
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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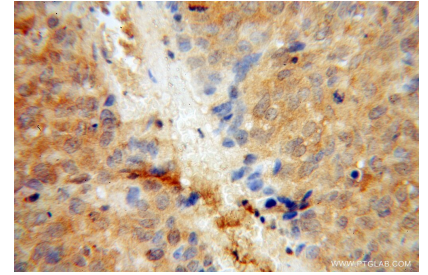
Selected Validation Data



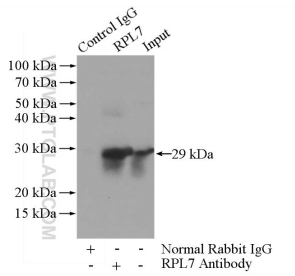
HEK-293 cells were subjected to SDS PAGE followed by western blot with 14583-1-AP (RPL7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



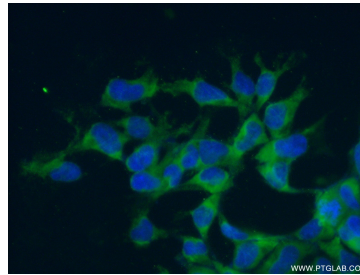
Immunohistochemical analysis of paraffin-embedded human skin cancer using 14583-1-AP (RPL7 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skin cancer using 14583-1-AP (RPL7 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-RPL7 (IP:14583-1-AP, 3 μ g; Detection:14583-1-AP 1:1000) with HEK-293 cells lysate 880 μ g.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using 14583-1-AP (RPL7 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).