

For Research Use Only

# p70(S6K) Monoclonal antibody

Catalog Number: 66638-1-Ig **14 Publications**



## Basic Information

Catalog Number: 66638-1-Ig	GenBank Accession Number: BC053365	Purification Method: Protein G purification
Concentration: 1200 µg/ml	GeneID (NCBI): 6198	CloneNo.: 1D11C6
Source: Mouse	UNIPROT ID: P23443	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:200-1:800
Isotype: IgG1	Full Name: ribosomal protein S6 kinase, 70kDa, polypeptide 1	
Immunogen Catalog Number: AG5883	Calculated MW: 59 kDa	
	Observed MW: 60-75 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : Jurkat cells, HEK-293 cells, HSC-T6 cells, NIH/3T3 cells
Species Specificity: Human, Mouse, Rat	IHC : human lung cancer tissue,
Cited Species: human, mouse	
<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

RPS6KB1(Ribosomal protein S6 kinase beta-1) is also named as STK14A, p70 S6KA and belongs to the S6 kinase subfamily. RPS6KB1 is a major substrate of MTOR and acts as a crucial effector of MTOR signaling pathway. It plays a key role in cell growth and proliferation by regulating INS sensitivity, metabolism, protein synthesis, and cell cycle. RPS6KB1 may play an important role in the progression of HCC and could serve as a potential molecular target for HCC therapy (PMID:22684641). RPS6KB1 is a 70 kDa protein and has 5 isoforms with the calculated molecular mass of 51-59kDa produced by alternative initiation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Haitao Fan	33166495	Exp Mol Pathol	WB
Fen Xu	32210620	Cancer Manag Res	WB
A L Feng	32130676	Clin Transl Oncol	WB

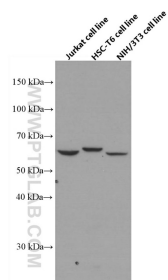
## Storage

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

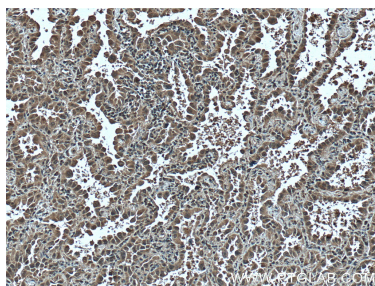
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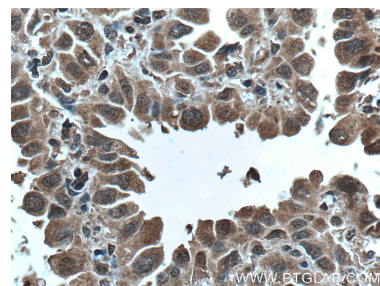
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66638-1-Ig (p70(S6K) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66638-1-Ig (p70(S6K) antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66638-1-Ig (p70(S6K) antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).