

**RPS27 Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22097a**

**Specification**

**RPS27 Antibody (N-Term) - Product Information**

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Application       | WB, IHC-P, FC,E                                                             |
| Primary Accession | <a href="#">P42677</a>                                                      |
| Other Accession   | <a href="#">Q2KHT7</a> , <a href="#">Q6ZWU9</a> ,<br><a href="#">Q71TY3</a> |
| Reactivity        | Human                                                                       |
| Predicted         | Bovine, Mouse,<br>Rat                                                       |
| Host              | Rabbit                                                                      |
| Clonality         | polyclonal                                                                  |
| Isotype           | Rabbit Ig                                                                   |
| Calculated MW     | 9461                                                                        |

**RPS27 Antibody (N-Term) - Additional Information**

**Gene ID** 6232

**Other Names**

40S ribosomal protein S27,  
Metallopan-stimulin 1, MPS-1, RPS27, MPS1

**Target/Specificity**

This RPS27 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 5-37 amino acids from human RPS27.

**Dilution**

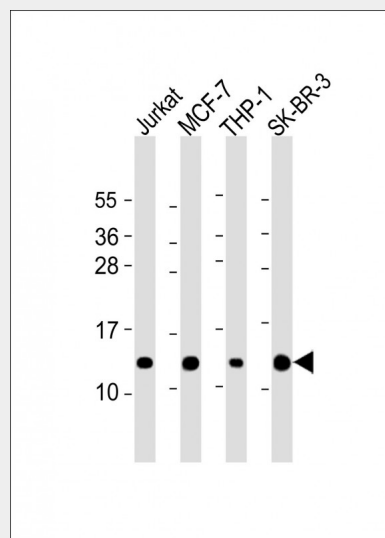
WB~~1:2000  
IHC-P~~1:25  
FC~~1:25

**Format**

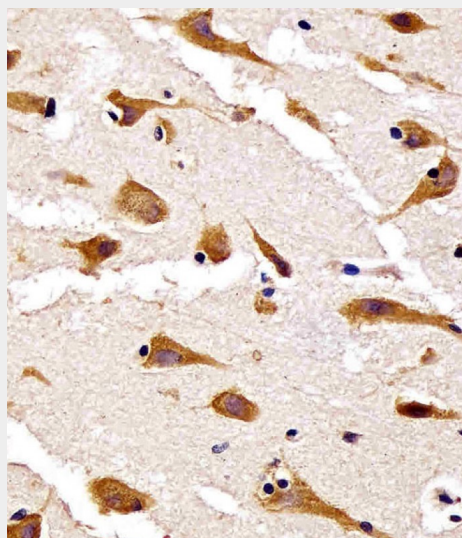
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



All lanes : Anti-RPS27 Antibody (N-Term) at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: MCF-7 whole cell lysate Lane 3: THP-1 whole cell lysate Lane 4: SK-BR-3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 9 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP22097a staining RPS27 in human brain tissue sections by Immunohistochemistry

### Precautions

RPS27 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

### RPS27 Antibody (N-Term) - Protein Information

**Name** RPS27

**Synonyms** MPS1

### Function

Component of the small ribosomal subunit (PubMed:<a href="http://www.uniprot.org/citations/8706699" target="\_blank">8706699</a>). Required for proper rRNA processing and maturation of 18S rRNAs (PubMed:<a href="http://www.uniprot.org/citations/25424902" target="\_blank">25424902</a>).

### Tissue Location

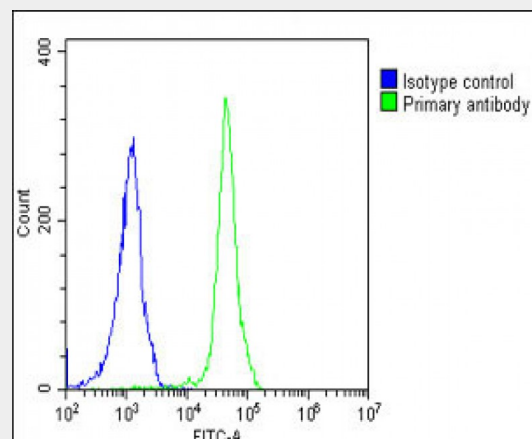
Expressed in a wide variety of actively proliferating cells and tumor tissues

### RPS27 Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

(IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing Jurkat cells stained with AP22097a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22097a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

### RPS27 Antibody (N-Term) - References

Fernandez-Pol J.A., et al. J. Biol. Chem. 268:21198-21204(1993).  
Tsui S.K.W., et al. Biochem. Mol. Biol. Int. 40:611-616(1996).  
Yoshihama M., et al. Genome Res. 12:379-390(2002).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Gregory S.G., et al. Nature 441:315-321(2006).