

## Product datasheet for **AM06342SU-N**

### **MPS1 (RPS27) Mouse Monoclonal Antibody [Clone ID: 4A12]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	4A12
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA:</b> 1/10000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of MPS1 expressed in E. Coli.
Specificity:	Recognizes MPS1, also known as RPS27.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	95 kDa
Gene Name:	ribosomal protein S27
Database Link:	<a href="#">Entrez Gene 6232 Human P42677</a>



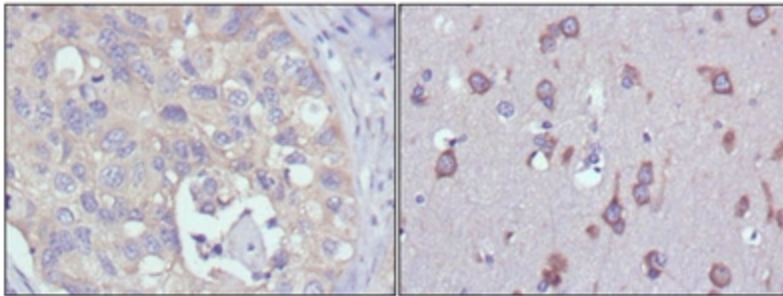
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**Background:**

MPS1, also known as RPS27. It is a ribosomal protein. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. MPS1 is a component of the 40S subunit. The protein belongs to the S27E family of ribosomal proteins. It contains a C4-type zinc finger domain that can bind to zinc. The encoded protein has been shown to be able to bind to nucleic acid. It is located in the cytoplasm as a ribosomal component, but it has also been detected in the nucleus. Studies in rat indicate that ribosomal protein S27 is located near ribosomal protein S18 in the 40S subunit and is covalently linked to translation initiation factor eIF3. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

**Synonyms:**

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

**Product images:**

Immunohistochemical analysis of paraffin-embedded human lung cancer (left) and human brain (right) tissues using MPS1 antibody Cat.-No AM06342SU-N with DAB staining.