

# SERBP1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20793c

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q8NC51</a>
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50792
Calculated MW	44965

## Additional Information

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Gene ID	26135
Other Names	Plasminogen activator inhibitor 1 RNA-binding protein, PAI1 RNA-binding protein 1, PAI-RBP1, SERPINE1 mRNA-binding protein 1, SERBP1, PAIRBP1
Target/Specificity	This SERBP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 149-183 amino acids from the Central region of human SERBP1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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.
Precautions	SERBP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	SERBP1 {ECO:0000303 PubMed:36691768, ECO:0000312 HGNC:HGNC:17860}
Function	Ribosome-binding protein that promotes ribosome hibernation, a process during which ribosomes are stabilized in an inactive state and preserved from proteasomal degradation (PubMed: <a href="#">36691768</a> ). Acts via its association with EEF2/eEF2 factor, sequestering EEF2/eEF2 at the A- site of the ribosome and

promoting ribosome stabilization and storage in an inactive state (By similarity). May also play a role in the regulation of mRNA stability: binds to the 3'-most 134 nt of the SERPINE1/PAI1 mRNA, a region which confers cyclic nucleotide regulation of message decay (PubMed:[11001948](#)). Seems to play a role in PML-nuclear bodies formation (PubMed:[28695742](#)).

**Cellular Location**

Cytoplasm. Nucleus. Cytoplasm, perinuclear region

**Tissue Location**

Expressed at high level in the heart, skeletal muscle and kidney, and at low levels in placenta, liver and brain

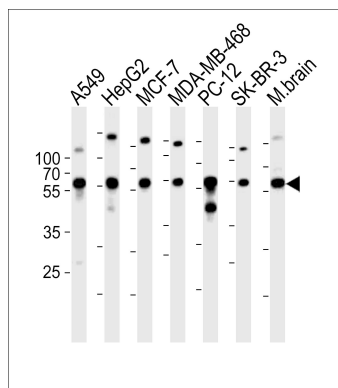
## Background

May play a role in the regulation of mRNA stability. Binds to the 3'-most 134 nt of the SERPINE1/PAI1 mRNA, a region which confers cyclic nucleotide regulation of message decay.

## References

Lai C.-H.,et al.Genome Res. 10:703-713(2000).  
Wiemann S.,et al.Genome Res. 11:422-435(2001).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Gregory S.G.,et al.Nature 441:315-321(2006).

## Images



Western blot analysis of lysates from A549, HepG2, MCF-7, MDA-MB-468, rat PC-12, SK-BR-3 cell line and mouse brain tissue lysate(from left to right), using SERBP1 Antibody (Center)(Cat. #AP20793c). AP20793c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.