10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SERBP1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20793c

Product Information

Application	WB, E
Primary Accession	Q8NC51
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50792
Calculated MW	44965

Additional Information

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

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:36691768). 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

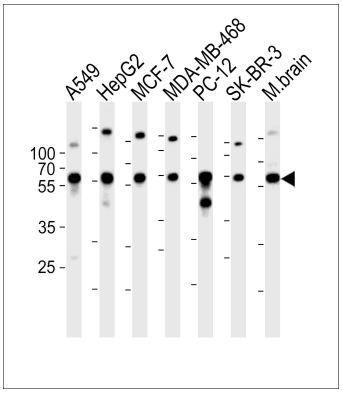
Background

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'.