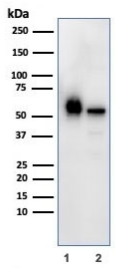
PAI-RBP1 Antibody / SERPINE1 RNA Binding Protein Antibody [clone SERBP1/3492] (V8456)

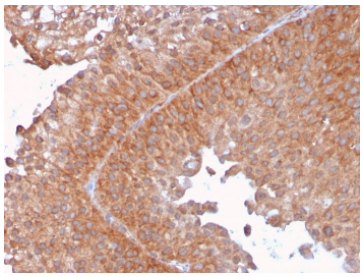
Catalog No.	Formulation	Size
V8456-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8456-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8456SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

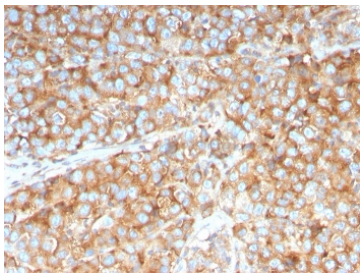
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	SERBP1/3492
Purity	Protein G affinity chromatography
UniProt	Q8NC51
Localization	Cytoplasm, nucleus, perinuclear regions
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This PAI-RBP1 Antibody / SERPINE1 RNA Binding Protein Antibody is available for research use only.



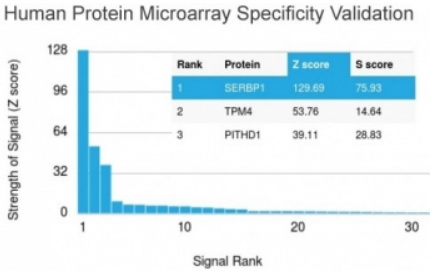
PAI-RBP1 Antibody WB. Western blot analysis of human 1) K562 and 2) PC-3 cell lysates using PAI-RBP1 Antibody detects bands migrating between approximately 45-60 kDa, consistent with the predicted molecular weight of PAI-RBP1 / SERBP1 and known variability in migration associated with post-translational modification and RNA-binding protein-associated electrophoretic behavior. This SERPINE1 RNA binding protein antibody highlights expression of post-transcriptional regulatory signaling pathways in hematologic and epithelial-derived tumor cell lines.



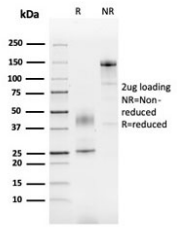
PAI-RBP1 Antibody Urothelial Carcinoma IHC. Immunohistochemistry analysis of FFPE human urothelial carcinoma tissue stained with PAI-RBP1 Antibody demonstrates diffuse cytoplasmic HRP-DAB brown staining throughout malignant epithelial cell populations, consistent with PAI-RBP1 / SERBP1-associated translational regulatory pathway expression. This SERPINE1 RNA binding protein antibody highlights post-transcriptional signaling and stress-response-associated cellular regulation within urothelial tumor tissue. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



PAI-RBP1 Antibody Urothelial Cancer IHC. Immunohistochemistry analysis of FFPE human urothelial carcinoma tissue stained with PAI-RBP1 Antibody demonstrates widespread cytoplasmic HRP-DAB brown staining across neoplastic epithelial cell populations, consistent with PAI-RBP1 / SERBP1-associated RNA regulatory and translational control pathway expression. This SERPINE1 RNA binding protein antibody highlights post-transcriptional signaling networks and cellular adaptation-associated regulatory biology in urothelial tumor tissue. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



PAI-RBP1 Antibody HuProt Microarray Validation. Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using PAI-RBP1 Antibody demonstrates highly selective recognition of PAI-RBP1 / SERBP1 with strong separation from non-target proteins across the tested human proteome. These results demonstrate the foremost specificity of the SERBP1/3492 mAb and support highly specific detection of RNA metabolism-associated signaling pathways and post-transcriptional regulatory proteins. The Z-score represents the strength of antibody binding signal relative to the overall array mean, while the S-score reflects target specificity relative to the next highest ranked protein signal. The elevated S-score separation observed for SERBP1 supports preferential target recognition across the tested human proteome.



SDS-PAGE analysis of purified, BSA-free PAI-RBP1 antibody as confirmation of integrity and purity.

Description

Plasminogen activator inhibitor 1 RNA-binding protein (PAI-RBP1), also known as SERPINE1 mRNA binding protein 1 (SERBP1), is an RNA-associated regulatory protein involved in translational control, mRNA stability, stress-response signaling, and post-transcriptional gene regulation. PAI-RBP1 functions through interactions with specific mRNA transcripts and ribonucleoprotein-associated regulatory complexes that influence cellular adaptation pathways and translational signaling networks. PAI-RBP1 Antibody is useful for investigations involving RNA metabolism, stress-associated signaling, translational regulation, and post-transcriptional cellular control pathways.

PAI-RBP1 antibody, also referred to as SERBP1 antibody and Plasminogen activator inhibitor 1 RNA-binding protein antibody in the literature, recognizes a predominantly cytoplasmic RNA-binding protein encoded on chromosome 1p31.1. PAI-RBP1 localizes mainly within ribonucleoprotein-associated cytoplasmic compartments where it contributes to mRNA stabilization, translational regulation, and stress granule-associated signaling pathways. Expression of PAI-RBP1 has been associated with hypoxia-responsive signaling, tumor-associated translational reprogramming, and stress adaptation-associated regulatory networks.

PAI-RBP1 Antibody / SERPINE1 RNA Binding Protein Antibody (clone SERBP1/3492) is uniquely positioned for studies involving translational control pathways and RNA-associated signaling biology. This mouse monoclonal antibody demonstrates strong western blot and immunohistochemical detection together with highly selective HuProt(TM) microarray specificity validation against more than 19,000 full-length human proteins. The combined validation profile supports use of clone SERBP1/3492 in investigations involving post-transcriptional signaling regulation, translational control pathways, and stress-response-associated cellular adaptation.

Analysis of HuProt(TM) microarrays containing more than 19,000 individually purified full-length human proteins demonstrated highly selective recognition of PAI-RBP1/SERBP1 by clone SERBP1/3492. In HuProt(TM) analysis, the Z-score represents the strength of antibody binding signal relative to the overall array mean, while the S-score reflects target specificity relative to the next highest ranked protein signal. Elevated S-score separation supports preferential target recognition and reduced off-target binding across the tested human proteome. This specificity validation strategy supports highly selective detection of RNA-associated regulatory proteins in complex tissue systems.

PAI-RBP1 contributes directly to translational control and cellular adaptation pathways through interactions with mRNA transcripts associated with stress signaling, proliferation pathways, and hypoxia-responsive regulatory networks. Altered PAI-RBP1-associated signaling has been linked to tumor-associated stress adaptation and dysregulated post-transcriptional signaling biology. Because PAI-RBP1 functions within RNA regulatory networks controlling translational output, it serves as an important marker for investigations involving post-transcriptional signaling and translational regulation-associated cellular biology.

This PAI-RBP1 Antibody supports research involving translational control pathways, RNA metabolism-associated signaling, post-transcriptional regulation, stress-response-associated signaling, hypoxia-associated pathways, ribonucleoprotein biology, and cellular adaptation-associated regulation. Clone SERBP1/3492 may be incorporated into western blot, immunohistochemistry, and tissue-based investigations examining RNA regulatory pathway organization in normal and diseased tissues.

For highly specific detection of SERBP1-associated RNA regulatory signaling pathways, see our SERBP1 Antibody / mRNA Binding Protein Antibody page featuring clone SERBP1/3491 with WB, IHC, and HuProt(TM) microarray specificity validation data.

Application Notes

Optimal dilution of the PAI-RBP1 Antibody / SERPINE1 RNA Binding Protein Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 3-139 from the human protein was used as the immunogen for the PAI-RBP1 antibody.

Storage

Store the PAI-RBP1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

PAI-RBP1 antibody, SERBP1 antibody, SERPINE1 mRNA binding protein 1 antibody, Plasminogen activator inhibitor 1 RNA-binding protein antibody, RNA regulatory protein antibody, Translational control protein antibody

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