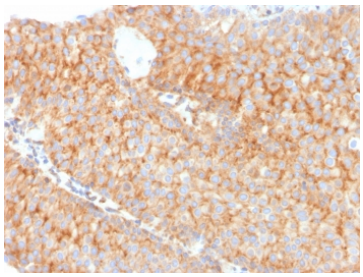
SERBP1 Antibody / mRNA Binding Protein Antibody [clone SERBP1/3491] (V7558)

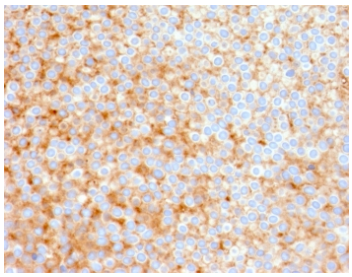
Catalog No.	Formulation	Size
V7558-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7558-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7558SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7558IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

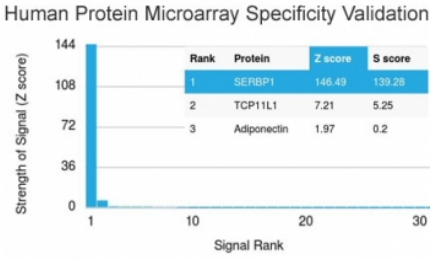
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SERBP1/3491
Purity	Protein G affinity chromatography
UniProt	Q8NC51
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1) Western Blot : 1-2ug/ml
Limitations	This SERBP1 Antibody / mRNA Binding Protein Antibody is available for research use only.



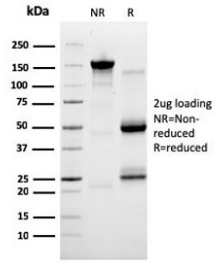
SERBP1 Antibody Urothelial Carcinoma IHC. Immunohistochemistry analysis of FFPE human urothelial carcinoma tissue stained with SERBP1 Antibody demonstrates diffuse cytoplasmic HRP-DAB brown staining throughout malignant epithelial cell populations, consistent with SERBP1-associated RNA regulatory and translational control pathway expression. This mRNA binding protein antibody highlights post-transcriptional signaling and stress-response-associated cellular regulation within urothelial tumor tissue. Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



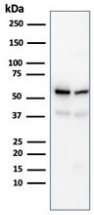
SERBP1 Antibody Urothelial Cancer IHC. Immunohistochemistry analysis of FFPE human urothelial carcinoma tissue stained with SERBP1 Antibody demonstrates widespread cytoplasmic HRP-DAB brown staining across malignant epithelial cell populations, consistent with SERBP1-associated mRNA regulatory and translational control pathway expression. This mRNA binding protein antibody highlights post-transcriptional signaling networks and stress-response-associated cellular regulation within urothelial tumor tissue. Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



SERBP1 Antibody HuProt Microarray Validation. Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using SERBP1 Antibody demonstrates highly selective recognition of SERBP1 with exceptionally strong separation from non-target proteins across the tested human proteome. These results demonstrate the foremost specificity of the SERBP1/3491 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 markedly elevated S-score separation observed for SERBP1 supports preferential target recognition with minimal off-target binding across the tested human proteome.



SDS-PAGE analysis of purified, BSA-free SERBP1 antibody (clone SERBP1/3491) as confirmation of integrity and purity.



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

Description

SERPINE1 mRNA binding protein 1 (SERBP1) is an RNA-associated regulatory protein involved in mRNA stability, translational regulation, stress-response signaling, and post-transcriptional control of gene expression. SERBP1 functions through interactions with specific mRNA transcripts and ribonucleoprotein-associated regulatory complexes that influence transcript turnover, protein translation, and cellular adaptation pathways. SERBP1 Antibody is useful for investigations

involving RNA metabolism, stress-response signaling, translational control, and post-transcriptional regulatory biology.

SERBP1 antibody, also referred to as SERPINE1 mRNA binding protein 1 antibody, PAI-RBP1 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. SERBP1 localizes mainly within cytoplasmic ribonucleoprotein-associated compartments where it contributes to mRNA stabilization, translational regulation, and stress granule-associated signaling pathways. Expression of SERBP1 has been associated with cellular stress adaptation, tumor-associated signaling, hypoxia-responsive pathways, and regulation of mRNA networks involved in proliferation and survival signaling.

SERBP1 Antibody / mRNA Binding Protein Antibody (clone SERBP1/3491) is uniquely positioned for studies involving RNA regulatory signaling and post-transcriptional cellular control pathways. 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 SERBP1/3491 in investigations involving translational regulation, RNA metabolism-associated signaling, and stress-response-associated cellular regulation.

Analysis of HuProt(TM) microarrays containing more than 19,000 individually purified full-length human proteins demonstrated highly selective recognition of SERBP1 by clone SERBP1/3491. 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.

SERBP1 contributes directly to post-transcriptional regulation through interactions with mRNA transcripts associated with stress adaptation, hypoxia signaling, cellular proliferation, and translational control pathways. Dysregulated SERBP1-associated signaling has been linked to tumor progression, altered stress-response pathways, and cancer-associated translational reprogramming. Because SERBP1 functions at the interface of RNA metabolism and cellular adaptation signaling, it serves as an important marker for investigations involving RNA regulatory networks and stress-associated cellular biology.

This SERBP1 Antibody supports research involving mRNA regulation, translational control, RNA metabolism-associated signaling, stress-response pathways, hypoxia-associated signaling, ribonucleoprotein biology, and post-transcriptional cellular regulation. Clone SERBP1/3491 may be incorporated into western blot, immunohistochemistry, and tissue-based investigations examining RNA regulatory pathway organization in normal and diseased tissues.

Explore additional RNA regulatory and stress-response signaling markers on our Signal Transduction Antibodies landing page, including antibodies targeting translational control, post-transcriptional regulation, and cellular adaptation-associated pathways.

Application Notes

Optimal dilution of the SERBP1 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant human partial protein corresponding to amino acids 3-139 was used as the immunogen for the SERBP1 antibody.

Storage

Store the SERBP1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

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