

# RSF1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20734c

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q96T23</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50707
Calculated MW	163821

## Additional Information

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Gene ID	51773
Other Names	Remodeling and spacing factor 1, Rsf-1, HBV pX-associated protein 8, Hepatitis B virus X-associated protein, p325 subunit of RSF chromatin-remodeling complex, RSF1, HBXAP, XAP8
Target/Specificity	This RSF1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1355-1389 amino acids from the C-terminal region of human RSF1.
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	RSF1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	RSF1
Synonyms	HBXAP, XAP8
Function	Regulatory subunit of the ATP-dependent RSF-1 and RSF-5 ISWI chromatin-remodeling complexes, which form ordered nucleosome arrays on

chromatin and facilitate access to DNA during DNA-templated processes such as DNA replication, transcription, and repair (PubMed:[12972596](#), PubMed:[28801535](#)). Binds to core histones together with SMARCA5, and is required for the assembly of regular nucleosome arrays by the RSF-5 ISWI chromatin-remodeling complex (PubMed:[12972596](#)). Directly stimulates the ATPase activity of SMARCA1 and SMARCA5 in the RSF-1 and RSF-5 ISWI chromatin-remodeling complexes, respectively (PubMed:[28801535](#)). The RSF-1 ISWI chromatin remodeling complex has a lower ATP hydrolysis rate than the RSF-5 ISWI chromatin-remodeling complex (PubMed:[28801535](#)). The complexes do not have the ability to slide mononucleosomes to the center of a DNA template (PubMed:[28801535](#)). Facilitates transcription of hepatitis B virus (HBV) genes by the pX transcription activator. In case of infection by HBV, together with pX, it represses TNF-alpha induced NF-kappa-B transcription activation. Represses transcription when artificially recruited to chromatin by fusion to a heterogeneous DNA binding domain (PubMed:[11788598](#), PubMed:[11944984](#)).

#### Cellular Location

Nucleus Note=Localization is diffuse during mitosis (PubMed:12972596). Co-localizes with SMARCA5 in the nucleus (PubMed:12972596)

#### Tissue Location

Ubiquitously expressed. Highly expressed in the heart, skeletal muscle, kidney and placenta (PubMed:12972596) Expressed at low levels in the brain and colon (PubMed:12972596)

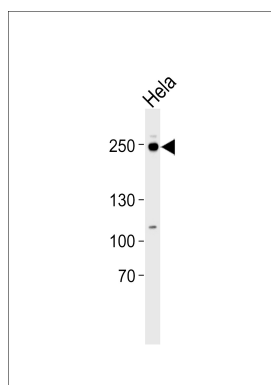
## Background

Required for assembly of regular nucleosome arrays by the RSF chromatin-remodeling complex. Facilitates transcription of hepatitis B virus (HBV) genes by the pX transcription activator. In case of infection by HBV, together with pX, it represses TNF- alpha induced NF-kappa-B transcription activation. Represses transcription when artificially recruited to chromatin by fusion to a heterogeneous DNA binding domain.

## References

Shamay M.,et al.Genomics 79:523-529(2002).  
 Shamay M.,et al.J. Biol. Chem. 277:9982-9988(2002).  
 Taylor T.D.,et al.Nature 440:497-500(2006).  
 Mao Y.M.,et al.Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases.  
 Ota T.,et al.Nat. Genet. 36:40-45(2004).

## Images



Western blot analysis of lysate from HeLa cell line, using RSF1 Antibody (C-term)(Cat. #AP20734c). AP20734c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

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