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RSF1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20734c

Product Information

Application	WB, E
Primary Accession	Q96T23
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50707
Calculated MW	163821

Additional Information

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

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 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)

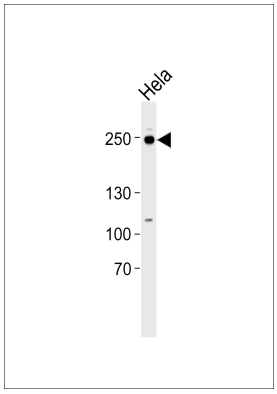
Background

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.