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RSF1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20734c

Specification

RSF1 Blocking Peptide (C-term) - Product Information

Primary Accession Q96T23

RSF1 Blocking Peptide (C-term) - 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
The synthetic peptide sequence is selected from aa 1355-1369 of HUMAN RSF1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RSF1 Blocking Peptide (C-term) - 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-alpha induced NF-kappa-B transcription activation. Represses transcription when artificially recruited to chromatin by fusion to a heterogeneous DNA binding domain (PubMed:11944984, PubMed:11788598).

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)

RSF1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

RSF1 Blocking Peptide (C-term) - Images

RSF1 Blocking Peptide (C-term) - 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.

RSF1 Blocking Peptide (C-term) - References

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Taylor T.D.,et al.Nature 440:497-500(2006).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).