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RSF1 Rabbit pAb

Catalog # AP98348

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96T23
Other Accession	Q96T23
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	163821
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RSF1
Epitope Specificity	31-130/1441
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 DDT domain. Contains 1 PHD-type zinc finger.
SUBUNIT	Interacts with SMARCA5/SNF2H to form the RSF complex. Also binds the HBV pX/HBx protein, which is required to activate transcription of the viral genome.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a nuclear protein that interacts with hepatitis B virus X protein (HBX) and facilitates transcription of hepatitis B virus genes by the HBX transcription activator, suggesting a role for this interaction in the virus life cycle. This protein also interacts with SNF2H protein to form the RSF chromatin-remodeling complex, where the SNF2H subunit functions as the nucleosome-dependent ATPase, and this protein as the histone chaperone. [provided by RefSeq, Sep 2011]

Additional Information

Gene ID	51773
Other Names	HBXAP; RSF-1; XAP8; p325; 4832420A03Rik; C030033M12Rik; Gm164; RSF1_HUMAN; RSF1; HBV pX-associated protein 8; Hepatitis B virus X-associated protein; p325 subunit of RSF chromatin-remodeling complex; remodeling and spacing factor 1; hepatitis B virus x associated protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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)

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