10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RSBN1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11537a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q5VWQ0
Other Accession	NP_060834.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30156
Calculated MW	90072
Antigen Region	51-78

Additional Information

Gene ID	54665
Other Names	Round spermatid basic protein 1, RSBN1
Target/Specificity	This RSBN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 51-78 amino acids from the N-terminal region of human RSBN1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	RSBN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RSBN1 (HGNC:25642)
Function	Histone demethylase that specifically demethylates dimethylated 'Lys-20' of histone H4 (H4K20me2) and trimethylated 'Lys- 20' of histone H4 (H4K20me3)

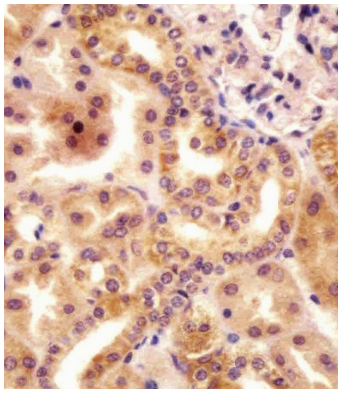
into monomethyl H4K20 (H4K20me1) thereby modulating chromosome architecture. May play a critical role in regulating H4K20 methylation during spermatogenesis.

Cellular Location Nucleus {ECO:0000250|UniProtKB:Q80T69}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q80T69}

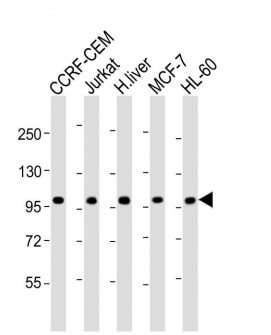
References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Prahalad, S., et al. Arthritis Rheum. 60(7):2124-2130(2009)
Cooper, J.D., et al. Nat. Genet. 40(12):1399-1401(2008)
Raychaudhuri, S., et al. Nat. Genet. 40(10):1216-1223(2008)
Smyth, D.J., et al. Diabetes 57(6):1730-1737(2008)

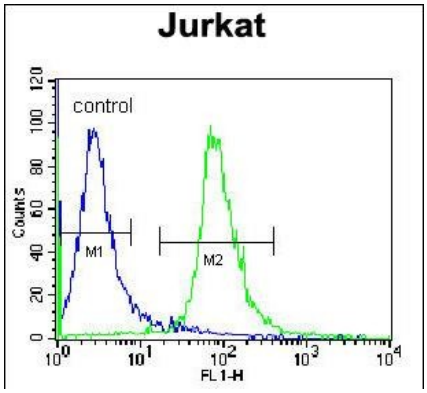
Images



AP11537a staining RSBN1 in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



All lanes : Anti-RSBN1 Antibody (N-term) at 1:2000 dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: human liver lysate Lane 4: MCF-7 whole cell lysate Lane 5: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 90 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



RSBN1 Antibody (N-term) (Cat. #AP11537a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

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