

Recombinant Anti-PCAF Rabbit mAb

Catalog # AP95213

Product Information

Application	WB, FC, IP
Primary Accession	Q92831
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	93013

Additional Information

Gene ID	8850
Other Names	PCAF; Histone acetyltransferase KAT2B; Histone acetyltransferase PCAF; Histone acetylase PCAF; Lysine acetyltransferase 2B; P300/CBP-associated factor; P/CAF
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human PCAF protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IP~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	KAT2B {ECO:0000303 PubMed:27796307, ECO:0000312 HGNC:HGNC:8638}
Function	Functions as a histone acetyltransferase (HAT) to promote transcriptional activation (PubMed: 8945521). Has significant histone acetyltransferase activity with core histones (H3 and H4), and also with nucleosome core particles (PubMed: 8945521). Has a strong preference for acetylation of H3 at 'Lys-9' (H3K9ac) (PubMed: 21131905). Also acetylates non-histone proteins, such as ACLY, MAPRE1/EB1, PLK4, RRP9/U3-55K and TBX5 (PubMed: 10675335 , PubMed: 23001180 , PubMed: 23932781 , PubMed: 26867678 , PubMed: 27796307 , PubMed: 29174768 , PubMed: 9707565). Inhibits cell-cycle progression and counteracts the mitogenic activity of the adenoviral oncoprotein E1A (PubMed: 8684459). Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-BMAL1 and CLOCK-BMAL1 heterodimers (PubMed: 14645221). Involved in heart and limb development by mediating acetylation of TBX5, acetylation regulating nucleocytoplasmic shuttling of TBX5 (PubMed: 29174768). Acts as a negative regulator of centrosome

amplification by mediating acetylation of PLK4 (PubMed:[27796307](#)). Acetylates RRP9/U3-55K, a core subunit of the U3 snoRNP complex, impairing pre-rRNA processing (PubMed:[26867678](#)). Acetylates MAPRE1/EB1, promoting dynamic kinetochore-microtubule interactions in early mitosis (PubMed:[23001180](#)). Also acetylates spermidine (PubMed:[27389534](#)).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm Note=Mainly localizes to the nucleus. Also localizes to centrosomes in late G1 and around the G1/S transition, coinciding with the onset of centriole formation. Subcellular location may vary depending upon cell differentiation state. Cytoplasmic at the very stages of keratinocyte differentiation, becomes nuclear at later differentiation stages Cytoplasmic in basal epithelial cells (undifferentiated cells) and nuclear in parabasal cells (differentiated cells) (PubMed:20940255) Localizes to sites of DNA damage (PubMed:25593309)

Tissue Location

Ubiquitously expressed but most abundant in heart and skeletal muscle. Also expressed in the skin, in keratinocytes (at protein level) (PubMed:20940255).

Images



Western blot analysis of PCAF expression in A431 (A) whole cell lysates. (Predicted band size: 93 kD; Observed band size: 93 kD)

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