

Rabbit PCAF Polyclonal Antibody | anti-PCAF antibody

PCAF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329510	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (92%), Bovine (92%), Horse (100%), Sheep (92%), Dog (100%), Chicken (92%)	ELISA, Western Blot

PRODUCT SYNONYMS

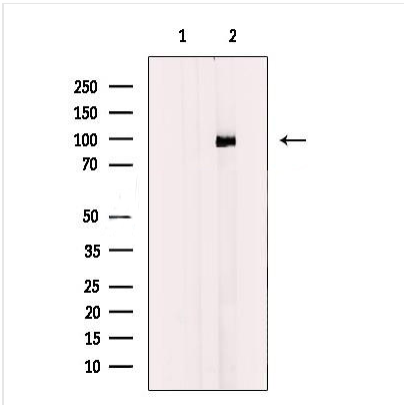
PCAF; Polyclonal Antibody; PCAF Antibody; CAF; CREBBP associated factor; GCN5; GCN5L; GCN5L1; Histone acetylase PCAF; Histone acetyltransferase KAT2B; Histone acetyltransferase PCAF; K (lysine) acetyltransferase 2B; KAT2B; KAT2B_HUMAN; Lysine acetyltransferase 2B; P; P/CAF; p300/CBP associated factor; P300/CBP-associated factor; Pcaf; anti-PCAF antibody

PRODUCT SPECIFICATIONS

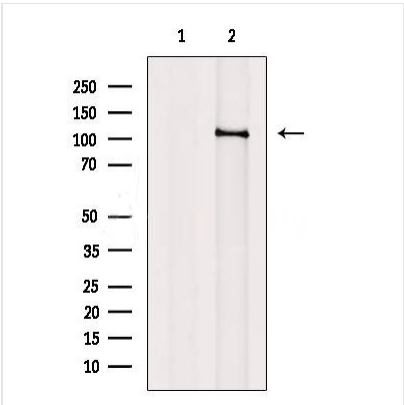
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (92%), Bovine (92%), Horse (100%), Sheep (92%), Dog (100%), Chicken (92%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	PCAF Antibody detects endogenous levels of total PCAF. Tissue Specificity: Ubiquitously expressed but most abundant in heart and skeletal muscle. Also expressed in the skin, in keratinocytes (at protein level).
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PCAF antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PCAF, corresponding to a region within C-terminal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Interacts with SIRT1. Interacts (unsumoylated form) with NR2C1; the interaction promotes transactivation activity (By similarity). Interacts with EP300, CREBBP and DDX17. Interacts with NCOA1 and NCOA3. Component of a large chromatin remodeling complex, at least composed of MYSM1, KAT2B/PCAF, RBM10 and KIF11/TRIP5. Interacts with NR2C2 (hypophosphorylated and unsumoylated form); the interaction promotes the transactivation activity of NR2C2. Interacts with KLF1; the interaction does not acetylate KLF1 and there is no enhancement of its transactivational activity. Interacts with NFE4. Interacts with MECOM. Interacts with E2F1; the interaction acetylates E2F1 augmenting its DNA-binding and transcriptional activity. Interacts with NPAS2, ARNTL/BMAL1 and CLOCK. Interacts with BCAS3. Interacts with CEBPB. Interacts with NR4A3 (By similarity). Interacts with NFATC2 (By similarity). Interacts with TBX5. Interacts with PLK4. Interacts with RB1; this interaction leads to RB1 acetylation (By similarity). (Microbial infection) Interacts with and acetylates HIV-1 Tat. (Microbial infection) Interacts with HTLV-1 Tax.
Similarity	(Microbial infection) The bromodomain mediates binding to HIV-1 Tat. Belongs to the acetyltransferase family. GCN5 subfamily.

Subcellular 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).
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from A431, using PCAF Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from EC304 cells, using PCAF Antibody. The lane on the left was treated with blocking peptide.Observed bands: 110 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PCAF antibody	Functions as a histone acetyltransferase (HAT) to promote transcriptional activation. Has significant histone acetyltransferase activity with core histones (H3 and H4), and also with nucleosome core particles. Also acetylates non-histone proteins, such as ACLY, PLK4, RRP9/U3-55K and TBX5. Inhibits cell-cycle progression and counteracts the mitogenic activity of the adenoviral oncoprotein E1A. Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers. Involved in heart and limb development by mediating acetylation of TBX5, acetylation regulating nucleocytoplasmic shuttling of TBX5. Acts as a negative regulator of centrosome amplification by mediating acetylation of PLK4. Acetylates RRP9/U3-55K, a core subunit of the U3 snoRNP complex, impairing pre-rRNA processing. Also acetylates spermidine. (Microbial infection) In case of HIV-1 infection, it is recruited by the viral protein Tat. Regulates Tat's transactivating activity and may help inducing chromatin remodeling of proviral genes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40805843
NCBI GeneID	8850
NCBI Accession #	NP_003875.3
NCBI GenBank Nucleotide #	NM_003884.4
UniProt Accession #	Q92831; Q6NSK1
Molecular Weight	93,013 Da
NCBI Official Full Name	histone acetyltransferase KAT2B
NCBI Official Synonym Full Names	K(lysine) acetyltransferase 2B
NCBI Official Symbol	KAT2B
NCBI Official Synonym Symbols	P; CAF; PCAF; P/CAF

NCBI Protein Information	histone acetyltransferase KAT2B; histone acetylase PCAF; CREBBP-associated factor; p300/CBP-associated factor; lysine acetyltransferase 2B; histone acetyltransferase PCAF
UniProt Protein Name	Histone acetyltransferase KAT2B
UniProt Gene Name	KAT2B
UniProt Synonym Gene Names	PCAF; Histone acetylase PCAF; P/CAF
UniProt Entry Name	KAT2B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pcaf-antibody-peptide-elisa-western-blot-elisa/329510>