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

PCAF Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant PCAF.
Catalog # AT3206a

Product Information

Application	WB, IF, E
Primary Accession	Q92831
Other Accession	BC060823
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5E12
Calculated MW	93013

Additional Information

Gene ID	8850
Other Names	Histone acetyltransferase KAT2B, Histone acetyltransferase PCAF, Histone acetylase PCAF, Lysine acetyltransferase 2B, P300/CBP-associated factor, P/CAF, KAT2B, PCAF
Target/Specificity	PCAF (AAH60823, 353 a.a. ~ 452 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PCAF Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

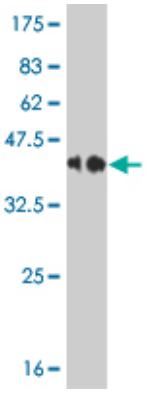
Background

CBP and p300 are large nuclear proteins that bind to many sequence-specific factors involved in cell growth and/or differentiation, including c-jun and the adenoviral oncoprotein E1A. The protein encoded by this gene associates with p300/CBP. It has in vitro and in vivo binding activity with CBP and p300, and competes with E1A for binding sites in p300/CBP. It has histone acetyl transferase activity with core histones and nucleosome core particles, indicating that this protein plays a direct role in transcriptional regulation.

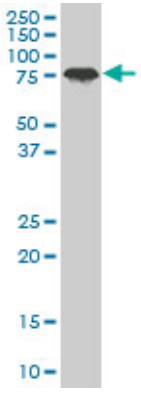
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Acetylation of lysine 564 adjacent to the C-terminal binding protein-binding motif in EVI1 is crucial for transcriptional activation of GATA2. Shimahara A, et al. J Biol Chem, 2010 May 28. PMID 20363750.CARM1 activates myogenin gene via PCAF in the early differentiation of TPA-induced rhabdomyosarcoma-derived cells. Gao X, et al. J Cell Biochem, 2010 May. PMID 20213728.Regulation of Treg functionality by acetylation-mediated Foxp3 protein stabilization. van Loosdregt J, et al. Blood, 2010 Feb 4. PMID 19996091.Single nucleotide polymorphisms in miRNA binding sites and miRNA genes as breast/ovarian cancer risk modifiers in Jewish high-risk women. Kontorovich T, et al. Int J Cancer, 2010 Aug 1. PMID 19950226.

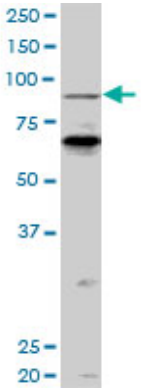
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

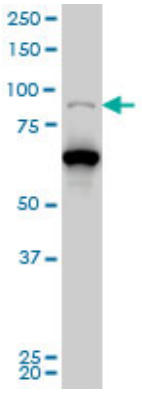


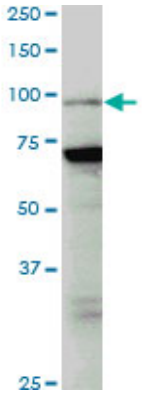
PCAF monoclonal antibody (M04), clone 5E11. Western Blot analysis of PCAF expression in human uterus myoma.



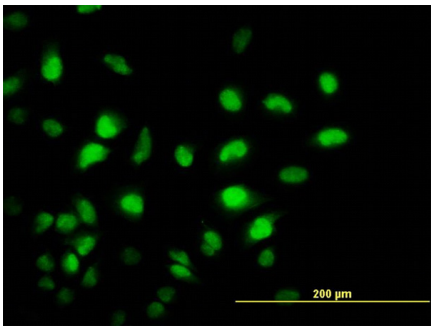
PCAF monoclonal antibody (M04), clone 5E11. Western Blot analysis of PCAF expression in LNCaP ((Cat # AT3206a)

PCAF monoclonal antibody (M04), clone 5E11 Western Blot analysis of PCAF expression in Hela S3 NE ((Cat # AT3206a)

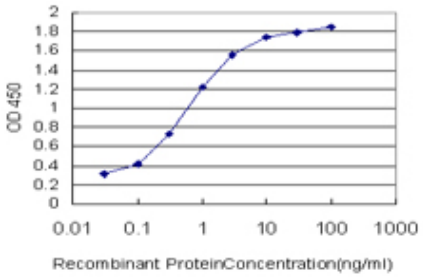




PCAF monoclonal antibody (M04), clone 5E11. Western Blot analysis of PCAF expression in A-431 ((Cat # AT3206a)



Immunofluorescence of monoclonal antibody to PCAF on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged PCAF is approximately 0.03ng/ml as a capture antibody.

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