

**PCAF Antibody (monoclonal) (M04)****Mouse monoclonal antibody raised against a partial recombinant PCAF.****Catalog # AT3206a****Specification**

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**PCAF Antibody (monoclonal) (M04) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">O92831</a>
Other Accession	<a href="#">BC060823</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	93013

**PCAF Antibody (monoclonal) (M04) - 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

**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.

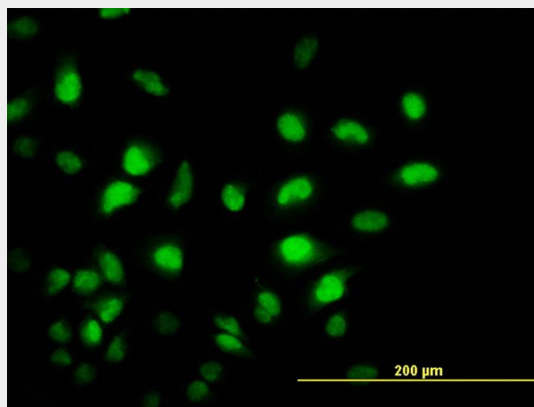
**PCAF Antibody (monoclonal) (M04) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

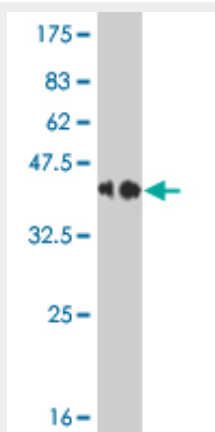
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

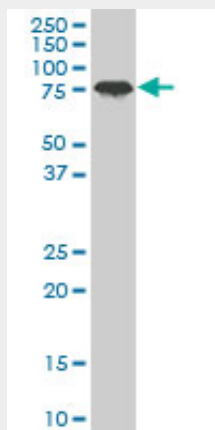
#### PCAF Antibody (monoclonal) (M04) - Images



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

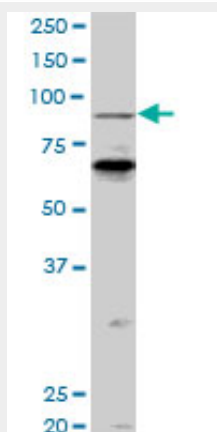


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .

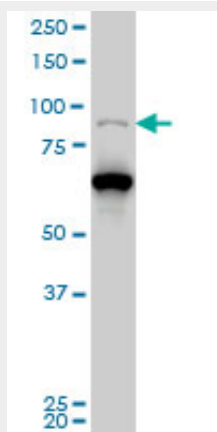


PCAF monoclonal antibody (M04), clone 5E11. Western Blot analysis of PCAF expression in human

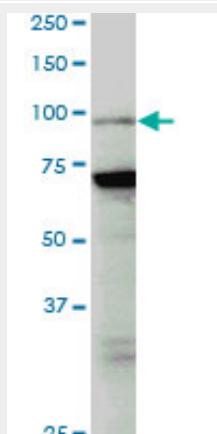
uterus myoma.



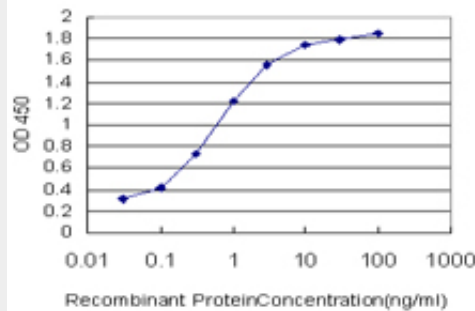
PCAF monoclonal antibody (M04), clone 5E11. Western Blot analysis of PCAF expression in LNCaP (Cat # AT3206a)



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)



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

#### **PCAF Antibody (monoclonal) (M04) - 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.

#### **PCAF Antibody (monoclonal) (M04) - 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.