

MCAF Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10578**Specification**

MCAF Antibody - Product Information

Application	WB
Primary Accession	Q6VMQ6
Other Accession	AAQ92978.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	136394

MCAF Antibody - Additional Information**Gene ID** 55729**Application & Usage**

Western blotting (1:500 - 1:2000). HeLa cell nuclear extract can be used as a positive control. However, the optimal concentrations should be determined individually. The antibody recognizes the MCAF of human and mouse origins. Reactivity to other species has not been tested.

Other Names

MCAF, MBD1-containing chromatin associated factor, ATF7IP, activating transcription factor 7 interacting protein, hAM, human ATFa-associated Modulator, p621, HGNC:20092, FLJ10139, FLJ10688

Target/Specificity

MCAF

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µl affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 1% BSA and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

MCAF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MCAF Antibody - Protein Information

Name ATF7IP ([HGNC:20092](#))

Synonyms MCAF, MCAF1

Function

Recruiter that couples transcriptional factors to general transcription apparatus and thereby modulates transcription regulation and chromatin formation. Can both act as an activator or a repressor depending on the context. Required for HUSH-mediated heterochromatin formation and gene silencing (PubMed: [27732843](http://www.uniprot.org/citations/27732843)). Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1 (PubMed: [12665582](http://www.uniprot.org/citations/12665582)). Stabilizes SETDB1, is required to stimulate histone methyltransferase activity of SETDB1 and facilitates the conversion of dimethylated to trimethylated H3 'Lys-9' (H3K9me3). The complex formed with MBD1 and SETDB1 represses transcription and couples DNA methylation and histone H3 'Lys-9' trimethylation (H3K9me3) (PubMed: [14536086](http://www.uniprot.org/citations/14536086), PubMed: [27732843](http://www.uniprot.org/citations/27732843)). Facilitates telomerase TERT and TERC gene expression by SP1 in cancer cells (PubMed: [19106100](http://www.uniprot.org/citations/19106100)).

Cellular Location

Nucleus

Tissue Location

Detected at low levels in breast, lung and stomach; highly up-regulated in the corresponding cancerous tissues (at protein level).

MCAF Antibody - 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](#)

MCAF Antibody - Images

MCAF Antibody - Background

MBD1-Containing Chromatin-Associated Factor (MCAF) associates with methyl CpG-binding protein (MBD1) that functions to recruit methyltransferases such as SETDB1 to chromatin. MCAF is required for the transcriptional repression and heterochromatin formation mediated by MBD1 and SETDB1.