10320 Camino Santa Fe, Suite G
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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). Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1 (PubMed: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, PubMed:27732843). Facilitates telomerase TERT and TERC gene expression by SP1 in cancer cells (PubMed: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 Cytomety
- Cell Culture

MCAF Antibody - Images

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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.