活化转录因子 7 相互作用蛋白 1 抗体

产品货号： mlR18711

英文名称： MCAF1

中文名称： 活化转录因子 7 相互作用蛋白 1 抗体

别　　名： Activating transcription factor 7 interacting protein 1; ATF interacting protein; ATF IP; ATF7IP; ATFa associated modulator; FLJ10139; FLJ10688; hAM; HGNC:20092; MBD1 containing chromatin associated factor; MCAF 1; MCAF; p621; MCAF1_HUMAN.

研究领域： 转录调节因子　结合蛋白　表观遗传学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Cow, Horse, Sheep,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

分 子 量： 136kDa

细胞定位： 细胞核

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human MCAF1:1101-1200/1270

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： ATF7IP is a multifunctional nuclear protein that associates with heterochromatin. It can act as a transcriptional coactivator or corepressor depending upon its binding partners (summary by Liu et al., 2009 [PubMed 19106100]).[supplied by OMIM, Nov 2010]

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. Mediates MBD1-dependent transcriptional repression, probably by recruiting complexes containing SETDB1. Required to stimulate histone methyltransferase activity of SETDB1 and facilitate 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). Facilitates telomerase TERT and TERC gene expression by SP1 in cancer cells.

Subunit:

Interacts with MBD1; the interaction is enhanced when MBD1 is sumoylated. Probably forms a complex with SETDB1 and MBD1. Interacts with SUMO ubiquitin-like proteins (SUMO1, SUNO2 and SUMO3), with a preference for SUMO2 and SUMO3. Interacts with SP1, ATF7 and ZHX1. Interacts with the general transcription machinery, including ERCC2, ERCC3, GTF2E1, GTF2E2 and POLR2A. Interacts with Epstein-Barr virus BRLF1/Rta protein, leading to promote and regulate host genes in Epstein-Barr virus-infected cells.

Subcellular Location:

Nucleus

Tissue Specificity:

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

Similarity:

Belongs to the MCAF family.

Contains 1 fibronectin type-III domain.

SWISS:

Q6VMQ6

Gene ID:

55729

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.