

Product datasheet for **AM06177SU-N**

KAT8 Mouse Monoclonal Antibody [Clone ID: 8C4C4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8C4C4
Applications:	IF, IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blotting: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human MYST1 expressed in E. Coli.
Specificity:	Recognizes MYST1
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	53 kDa
Gene Name:	lysine acetyltransferase 8
Database Link:	Entrez Gene 84148 Human Q9H7Z6



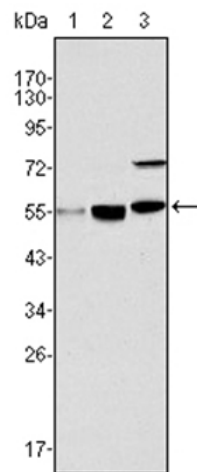
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Background:

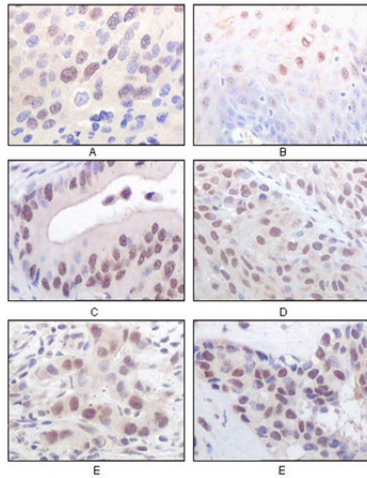
MYST1 (MYST histone acetyltransferase 1, MOF) belongs to the MYST family of histone acetyltransferases, which are employed in the cell to bring about transcriptional regulation. The MYST family includes MYST1, is named for the founding members MOZ, yeast YBF2 and SAS2, and TIP60. All members of this family contain a MYST region of about 240 amino acids with a canonical acetyl-CoA-binding site and a C2HC-type zinc finger motif. Most MYST proteins also have a chromodomain involved in protein- protein interactions and targeting transcriptional regulators to chromatin. Although MOF is expressed in both males and females, it associates with the X chromosome only in males. MOF contains a zinc-finger domain that is used to contact the globular part of the nucleosome and histone H4. The carboxy terminal domain of human MOF also has histone acetyltransferase activity directed against histones H3 and H2A, a characteristic shared with other MYST family histone

Synonyms:

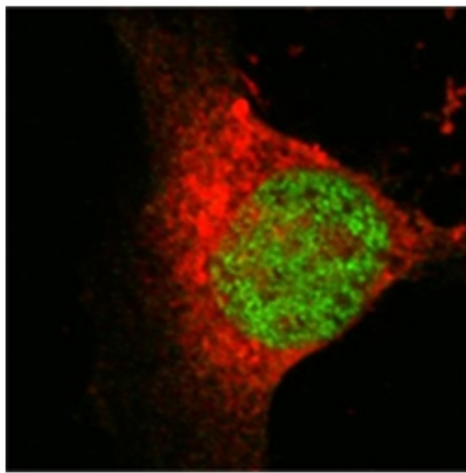
MOF, PP7073, YBF2/SAS3, SAS2, TIP60 protein 1, HMOF

Product images:

Western blot analysis using MYST1 antibody Cat.- No AM061775U-N against HeLa (Lane 1), HepG2 (Lane 2) and SMMC-7721 (Lane 3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human esophageal squamous cell carcinoma (A), normal esophagus epithelium (B), rectum adenocarcinoma (C), lung squamous cell carcinoma (D), breast infiltrating carcinoma (E), and breast infiltrating carcinoma (F) tissues, showing nuclear localization using MOF/MYST1 antibody Cat.-No AM06177SU-N with DAB staining.



Confocal immunofluorescence analysis of Eca 109 cells using MOF/MYST1 antibody Cat.-No AM06177SU-N (green), showing nuclear localization.