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HMOF/MYST1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1114b

Specification

HMOF/MYST1 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9H7Z6
Other Accession	Q5XI06, Q9D1P2
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**52403**
Antigen Region	**409-439**

HMOF/MYST1 Antibody (C-term) - Additional Information

Gene ID 84148

Other Names
Histone acetyltransferase KAT8, Lysine acetyltransferase 8, MOZ, YBF2/SAS3, SAS2 and TIP60 protein 1, MYST-1, hMOF, KAT8, MOF, MYST1

Target/Specificity
This HMOF/MYST1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 409-439 amino acids from the C-terminal region of human HMOF/MYST1.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HMOF/MYST1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

HMOF/MYST1 Antibody (C-term) - Protein Information

Name KAT8

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Synonyms MOF, MYST1

Function Histone acetyltransferase which may be involved in transcriptional activation (PubMed:12397079, PubMed:22020126). May influence the function of ATM (PubMed:15923642). As part of the MSL complex it is involved in acetylation of nucleosomal histone H4 producing specifically H4K16ac (PubMed:16227571, PubMed:16543150, PubMed:21217699, PubMed:22547026, PubMed:22020126). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (PubMed:20018852, PubMed:22547026). That activity is less specific than the one of the MSL complex (PubMed:20018852, PubMed:22547026). Can also acetylate TP53/p53 at 'Lys-120'.

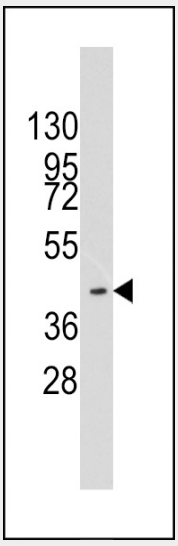
Cellular Location
Nucleus. Chromosome

HMOF/MYST1 Antibody (C-term) - 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

HMOF/MYST1 Antibody (C-term) - Images



Western blot analysis of anti-HMOF/MYST1(C-term) Pab (Cat.#AP1114b) in K562 cell line lysates (35ug/lane). HMOF/MYST1(arrow) was detected using the purified Pab.

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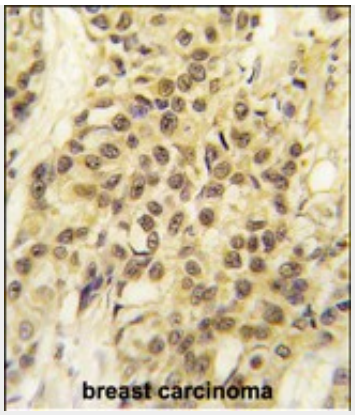

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with HMOF/MYST1 antibody (C-term) (Cat.#AP1114b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

HMOF/MYST1 Antibody (C-term) - Background

The MYST family of histone acetyltransferases, which includes MYST1, is named for the founding members MOZ (MYST3; MIM 601408), yeast YBF2 and SAS2, and TIP60 (HTATIP; MIM 601409). 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 (Neal et al., 2000 [PubMed 10786633]).[supplied by OMIM].

HMOF/MYST1 Antibody (C-term) - References

Rea,S.,Oncogene 26 (37), 5385-5394 (2007)
Pfister,S.,Int. J. Cancer 122 (6), 1207-1213 (2008)
Gupta,A.,Mol. Cell. Biol. 28 (1), 397-409 (2008)