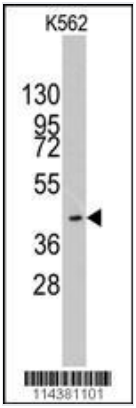
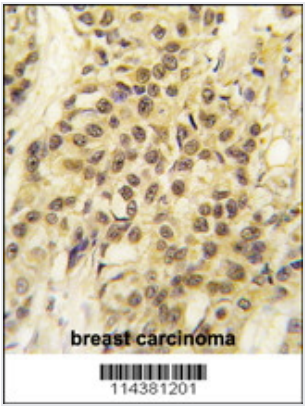
MYST1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MYST1, Polyclonal Antibody
Full Product Name	MYST1, CT (Probable Histone Acetyltransferase MYST1, MYST Protein 1, MOZ, YBF2/SAS3, SAS2 and TIP60 Protein 1, hMOF, HMOF, MOF, PP7073) (FITC)
Product Gene Name	anti-MYST1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human HMOF.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	53,085 Da
OMIM	609912
3D Structure	ModBase 3D Structure for Q9H7Z6
Immunogen	Synthetic peptide at the C-term of human HMOF/MYST1 (KLH).
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-MYST1 antibody	Antibodies; Enzymes; Acetyltransferase
Applications Tested/Suitable for anti-MYST1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-MYST1 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-MYST1 antibody	MBS6489221 is an antibody targeting MYST1. Also known as MYST1, CT (Probable Histone Acetyltransferase MYST1, MYST Protein 1, MOZ, YBF2/SAS3, SAS2 and TIP60 Protein 1, hMOF, HMOF, MOF, PP7073) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MYST1 antibody	1. Rea, S., Oncogene 26(37), 5385-5394 (2007). 2. Pfister, S., Int. J. Cancer 122(6), 1207-1213 (2008). 3. Gupta, A., Mol. Cell. Biol. 28(1), 397-409 (2008).
Other Notes	Small volumes of anti-MYST1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



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



Immunohistochemistry (IHC) of anti-MYST1 antibody
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with HMOF/MYST1 antibody (C-term), 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYST1. It may not necessarily be applicable to this product.

NCBI GI #	226371636
NCBI GeneID	84148
NCBI Accession #	NP_115564
UniProt Primary Accession #	Q9H7Z6
UniProt Secondary Accession #	Q659G0; Q7LC17; Q8IY59; Q8WYB4; Q8WZ14; Q9HAC5; Q9NR35; A8K4Z1; G5E9P2
UniProt Related Accession #	Q9H7Z6
GenBank Nucleotide #	NM_032188.2
NCBI Official Full Name	histone acetyltransferase KAT8 isoform 1
NCBI Official Synonym Full Names	K(lysine) acetyltransferase 8
NCBI Official Symbol	KAT8
NCBI Official Synonym Symbols	MOF; hMOF; MYST1; ZC2HC8
UniProt Protein Name	Histone acetyltransferase KAT8
UniProt Synonym Protein Names	Lysine acetyltransferase 8; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 1; MYST-1; hMOF
UniProt Gene Name	KAT8
UniProt Synonym Gene Names	MOF; MYST1; MYST-1; hMOF
UniProt Entry Name	KAT8_HUMAN
NCBI Protein Information	histone acetyltransferase KAT8
NCBI Summary for MYST1	This gene encodes a member of the MYST histone acetylase protein family. The encoded protein has a characteristic MYST domain containing an acetyl-CoA-binding site, a chromodomain typical of proteins which bind histones, and a C2HC-type zinc finger. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

UniProt Comments for MYST1	MYST1: Histone acetyltransferase which may be involved in transcriptional activation. May influence the function of ATM. As part of the MSL complex it is involved in acetylation of nucleosomal histone H4 producing specifically H4K16ac. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. That activity is less specific than the one of the MSL complex. Belongs to the MYST (SAS/MOZ) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.48; Acetyltransferase Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: kinetochore; nucleoplasm; nuclear membrane; nucleus; histone acetyltransferase complex Molecular Function: protein binding; histone acetyltransferase activity; enzyme binding; metal ion binding; acetyltransferase activity; histone acetyltransferase activity (H4-K16 specific); transcription factor binding; methylated histone residue binding Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; myeloid cell differentiation; regulation of autophagy; histone acetylation; negative regulation of transcription, DNA-dependent
Research Articles on MYST1	**1.** The histone acetyltransferase hMOF suppresses hepatocellular carcinoma growth by targeting the expression of SIRT6.
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