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Rabbit Anti-MYST1/KAT8 antibody

SL10553R

Product Name	MYST1/KAT8
Chinese Name	组蛋白乙酰转移酶 MOF 抗体
Alias	EC 2.3.1.48; Histone acetyltransferase KAT8; Histone acetyltransferase MYST1; hMOF; K(lysine) acetyltransferase 8; KAT 8; Lysine acetyltransferase 8; MOF; MOZ; MOZ, YBF2/SAS3, SAS2 and TIP60 protein 1; MYST 1; MYST histone acetyltransferase 1; myst protein 1; MYST-1; MYST1; MYST1_HUMAN; Ortholog of Drosophila males absent on the first (MOF); Probable histone acetyltransferase MYST1; SAS2 and TIP60 protein 1; SAS2; SAS3; TIP60 protein 1; YBF2; YBF2/SAS3.
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat, Pig, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	52kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human MYST1/KAT8: 351-450/458
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Dosage compensation ensures that males with a single X chromosome and females with two X chromosomes have the same amount of most X-linked gene products. In Drosophila, this is acheived by enhancing the level of transcription of the X chromosome in males. Proteins such as maleless, male specific lethal 1, 2 and 3, and males absent on the first (MOF) form a dosage compensation complex (DCC) that is required for the twofold increase of transcription of the male X chromosome. The DCC is preferentially associated with many sites on the X chromosome in somatic cells of males. The binding of the DCC to the X chromosome is dependent upon histone 4 acetylation at lysine 16, which is accomplished by MOF. In mammals, MOF (also designated hMOF, MYST1, or MOZ) belongs to the MYST family of histone acetyl transferases which are characterized by a unique C2HC-type zinc finger close to their HAT domains. MOF utilizes the zinc finger domain to contact the globular part of the nucleosome as well as the histone H4 N-terminal tail substrate. 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 acetyltransferases.

Function:
Histone acetyltransferase which may be involved in transcriptional activation. May influence the function of ATM.

Product Detail

Subunit:
Component of a multisubunit histone acetyltransferase complex (MSL) at least composed of the MOF/KAT8, MSL1/hampin, MSL2L1 and MSL3L1. Component of the NSL complex at least composed of MOF/KAT8, KANSL1, KANSL2, KANSL3, MCRS1, PHF20, OGT1/OGT, WDR5 and HCFC1. Component of some MLL1/MLL complex, at least composed of the core components MLL, ASH2L, HCFC1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCRS1, MGA, MOF/KAT8, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10. Interacts with the chromodomain of MORF4L1/MRG15. Interacts with ATM through the chromodomain. Interacts with KANSL1; the interaction is direct.

Subcellular Location:
Nucleus. Chromosome.

Post-translational modifications:
Autoacetylation at Lys-274 is required for proper function.

Similarity:
Belongs to the MYST (SAS/MOZ) family.
Contains 1 C2HC-type zinc finger.

Contains 1 chromo domain.

SWISS:
Q9H7Z6

Gene ID:
84148

Database links:

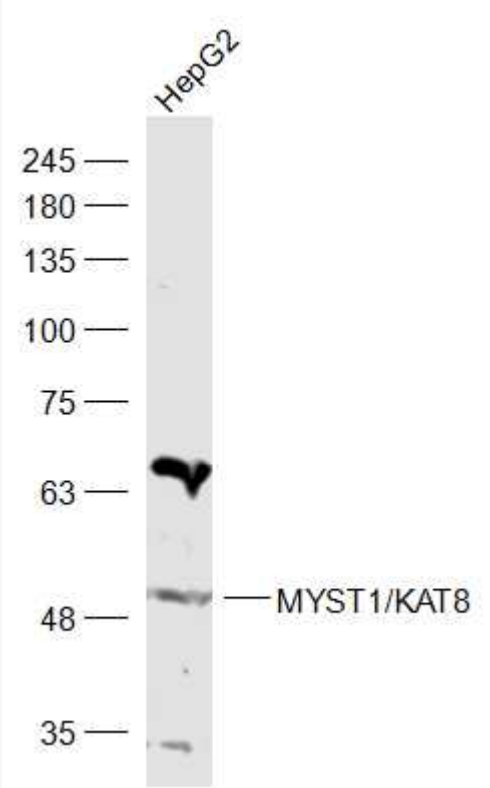
Entrez Gene: 84148 Human

Omim: 609912 Human

SwissProt: Q9H7Z6 Human

Unigene: 533803 Human

Product Picture



Sample:

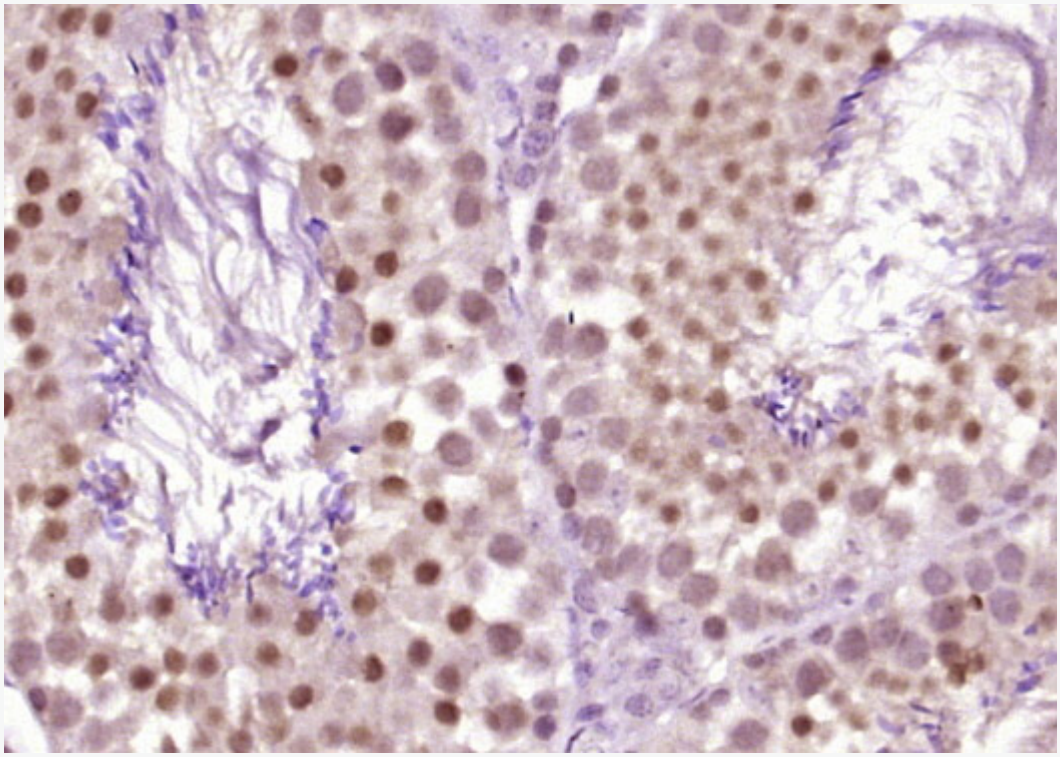
HepG2(Human) Cell Lysate at 30 ug

Primary: Anti-MYST1/KAT8 (SL10553R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 52 kD

Observed band size: 52 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MYST1/KAT8) Polyclonal Antibody, Unconjugated (SL10553R) at 1:400 overnight at 4°C, followed by

operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.