2200 Ringwood Ave. San Jose, CA 95131
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HBO1 (AB2413) mouse mAb

W0459

Key Features

Host Species
• Mouse

Reactivity
• Human;

Applications
• WB; IF; ELISA

MW
• 75 kDa (calculated)
• 75 kDa (observed)

Isotype
• IgM, kappa

Recommended Dilution Ratios

Application	Dilution
WB; IF; ELISA	WB, 1:500-1:2000 | IF, 1:100-1:500 | ELISA, Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage Conditions	Store at-20℃. Avoid freeze / thaw cycles.
Storage buffer	The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

Basic Information

Clonality	Monoclonal
Clone Number	AB2413
Immunogen	A synthetic peptide corresponding to the amino acid region 100 - 200 of the human HBO1 protein.
Specificity	This antibody detects endogenous levels of HBO1 protein.
Purification	Affinity purification Protein A
Concentration	Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name	KAT7
Protein Name	HBO1

Database Link

Organism	Swiss Prot.	Gene ID
Human	O95251	11143

Background

catalytic activity:Acetyl-CoA + histone = CoA + acetylhistone. , domain:The C2HC-type zinc finger is required for interaction with MCM2 and ORC1L. , domain:The N-terminus is involved in transcriptional repression, while the C-terminus mediates AR-interaction. , function:Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chromatin acetylation it may regulate DNA replication and act as a coactivator of TP53-dependent transcription. Specifically represses AR-mediated transcription. , PTM:Phosphorylated upon DNA damage, probably by ATM or ATR. , similarity:Belongs to the MYST (SAS/MOZ) family. , similarity:Contains 1 C2HC-type zinc finger. , subunit:Component of the HBO1 complex composed at least of ING4 or ING5, MYTS2/HBO1, EAF6, and

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one of PHF15, PHF16 and PHF17. Interacts with MCM2 and ORC1L. Interacts with the androgen receptor (AR) in the presence of dihydrotestosterone. , tissue specificity:Ubiquitously expressed, with highest levels in testis. ,