bsm-60578R **[Primary Antibody]**

SUV39H2 Recombinant Rabbit mAb

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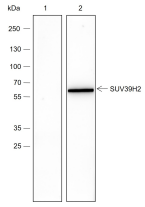
DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: D8C12
Target: SUV39H2
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

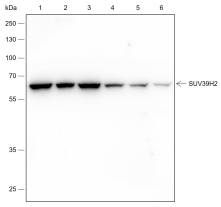
Background: Distinct modifications of histone tails, such as acetylation, phosphorylation and methylation, regulate nuclear processes by organizing chromatin into higher order structures. Higher order chromatin influences chromosome function and epigenetic gene regulation. SUV39H2 is a 410 amino acid protein that localizes to the centromere and contains one SET domain, one pre-SET domain, one post-SET domain and one chromo domain. Expressed at high levels in adult testis, SUV39H2 functions as a histone methyltransferase that trimethylates the Lys-9 residue of Histone H3, thereby playing an essential role in establishing constitutive heterochromatin at pericentric and telomere regions. SUV39H2 conveys its enzymatic activity via its multiple catalytic domains, which are necessary for both stable binding of SUV39H2 to chromatin and for SUV39H2 methyltransferase activity. Multiple isoforms of SUV39H2 exist due to alternative splicing events.

Applications: **WB** (1:500-1:2000)
Reactivity: Human (predicted: Mouse, Rat)
Subcellular Location: Nucleus

VALIDATION IMAGES



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:1000 Primary ab incubation condition: 2 hours at room temperature Secondary ab: Goat Anti-Rabbit IgG H&L (HRP) Lysate: 1: SHSY-5Y cell lysate, the SUV39H2 Rabbit mAb pre-adsorbed with 3μM of the synthetic peptides; 2: SHSY-5Y cell lysate, the SUV39H2 Rabbit mAb with no peptide blocking. Protein loading quantity: 20 μg Exposure time: 30 s Predicted MW: 47 kDa Observed MW: 65 kDa



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: 2 hours at room temperature Secondary ab: Goat Anti-Rabbit IgG H&L (HRP) Lysate: 1: SHSY-5Y, 2: MOLT-4, 3: NIH-3T3, 4: C6, 5: Mouse testis, 6: Rat testis Protein loading quantity: 20 μg Exposure time: 60 s Predicted MW: 47 kDa Observed MW: 65 kDa