

bsm-33377M**[Primary Antibody]**

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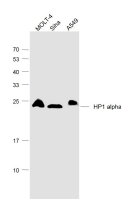
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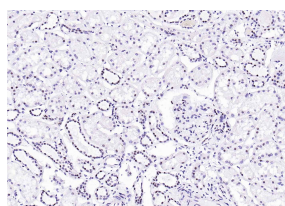
400-901-9800

HP1 alpha Mouse mAb**— DATASHEET —**

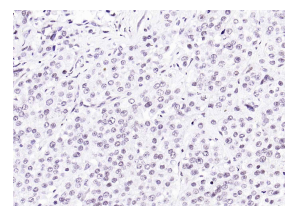
Host: Mouse Clonality: Monoclonal GeneID: 23468 Target: HP1 alpha Immunogen: Recombinant human HP1 alpha Protein: full length. Purification: affinity purified by Protein G Concentration: 1mg/ml Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq].	Isotype: IgG CloneNo.: 7E3 SWISS: P45973	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human (predicted: Mouse, Rat) Predicted MW.: 22 kDa Subcellular Location: Chromosome ,Centromere ,Nucleus
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— VALIDATION IMAGES —

Sample: MOLT-4(Human) Cell Lysate at 30 ug
SiHa(Human) Cell Lysate at 30 ug A549(Human)
Cell Lysate at 30 ug Primary: Anti- HP1 alpha
(bsm-33377M) at 1/1000 dilution Secondary:
IRDye800CW Goat Anti- Mouse IgG at 1/20000
dilution Predicted band size: 22 kD Observed
band size: 22 kD



Paraformaldehyde-fixed, paraffin embedded
(human kidney); 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 (HP1 alpha) Monoclonal
Antibody, Unconjugated (bsm-33377M) at 1:100
overnight at 4°C, followed by operating
according to SP Kit(Mouse)(sp-0024)
instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded
(human Prostate Tumor); 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 (HP1 alpha)
Monoclonal Antibody, Unconjugated
(bsm-33377M) at 1:100 overnight at 4°C,
followed by operating according to SP
Kit(Mouse)(sp-0024) instructions and DAB
staining.

— SELECTED CITATIONS —

- **[IF=7.666]** Sarah C. Wistner. et al. Characterization of Hepatoma-Derived Growth Factor-Related Protein 2 Interactions with Heterochromatin. CELLS-BASEL. 2023 Jan;12(2):325 WB ;Human. 36672260

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=3.3]** Chuanling Wang. et al. Histone MARYlation regulates lipid metabolism in colorectal cancer by promoting IGFBP1 methylation. EXP CELL RES. 2024 Oct;;114308 IF ;Human. 39490887