

产品名称: HP-1 γ (3B9)Mouse Monoclonal Antibody
产品货号: AMM12189



产品概述 (Summary)

产品名称 (Production Name)	HP-1 γ (3B9)Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC/IF
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CBX3
别名 (Alternative Names)	Chromobox protein homolog 3 (HECH;Heterochromatin protein 1 homolog gamma;HP1 gamma;Modifier 2 protein)
基因 ID (Gene ID)	11335.0
蛋白 ID (SwissProt ID)	Q13185.Recombinant Protein of HP-1 γ

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200
蛋白分子量 (Molecular Weight)	24kDa

研究背景 (Background)

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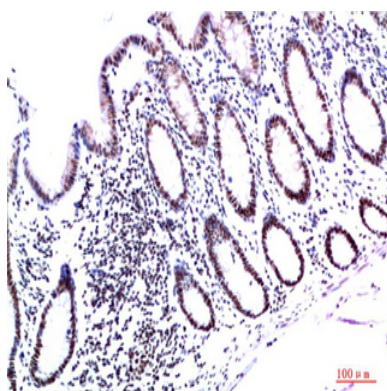


At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene. [provided by RefSeq, Mar 2011],function:Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR). Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.,PTM:Phosphorylated by PIM1. Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis.,similarity:Contains 2 chromo domains.,subcellular location:Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis.,subunit:Binds directly to CHAF1A. Interacts with histone H3 methylated at 'Lys-9'. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Interacts with LBR, INCENP, TRIM28/TIF1B, SUV420H1, SUV420H2 and SP100. Interacts with TIF1A (By similarity). Interacts with MIS12 and C20orf127. Can interact directly with CBX5 via the chromoshadow domain.,

研究领域 (Research Area)

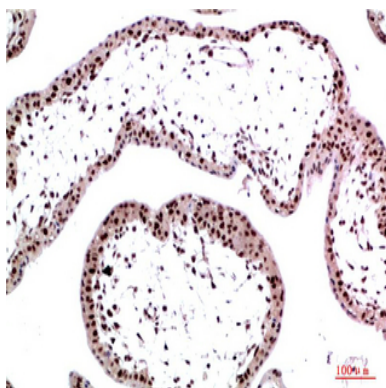
Epigenetics and Nuclear Signaling

图片 (Image Data)

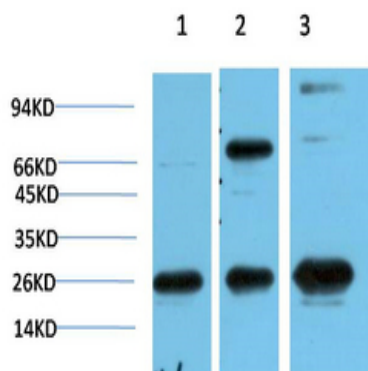


Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using HP-1 γ Mouse mAb diluted at 1:200

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Immunohistochemical analysis of paraffin-embedded Human Placenta Tissue using HP-1 γ Mouse mAb diluted at 1:200



Western blot analysis of 1) Hela Cell Lysate, 2) 3T3 Cell Lysate, 3) PC12 Cell Lysate using HP-1 γ Mouse mAb diluted at 1:1000.

注意事项 (Note)

For research use only .