Product Name: HP1γ Rabbit Polyclonal Antibody

Catalog #: APRab12188



Summary

Production Name HP1γ Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IHC,WB,ELISA **Reactivity** Human,Mouse,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name CBX3

CBX3; Chromobox protein homolog 3; HECH; Heterochromatin protein 1 homolog

gamma; HP1 gamma; Modifier 2 protein

Gene ID 11335.0

Q13185.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

HP1 gamma. AA range:59-108

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000...

Molecular Weight 22kD

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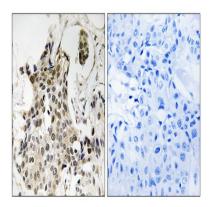


Background

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.,

Research Area

Image Data



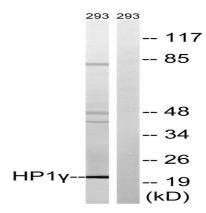
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using HP1 gamma Antibody. The picture on the right is blocked with the synthesized peptide.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

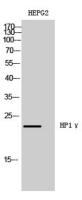
Product Name: HP1y Rabbit Polyclonal Antibody

EnkiLife

Catalog #: APRab12188



Western blot analysis of lysates from 293 cells, using HP1 gamma Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of HEPG2 cells using HP1y Polyclonal Antibody diluted at 1: 500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .

Note

For research use only.