POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-70-225-EX

Anti-HP1γ/CBX3 antibody (rabbit), ChIP grade

BACKGROUND

Heterochromatin protein 1 (HP1) is a major component of heterochromatin which plays a role in assembly of various proteins on chromatin and gene silencing. The HP1 family is evolutionally conserved, with members in fungi, plants and animals but not prokaryotes, and there are multiple members within the same species. The HP1 family proteins are encoded by a class of genes known as the chromobox (CBX) genes. In humans, HP1γ is encoded by the *Chromobox homolog 3* (CBX3) gene. HP1γ has been observed to interact directly or indirectly with several non-histone proteins with a wide variety of functions (Ref 1).

The product is prepared by immunizing rabbit with the synthetic peptide **WHSCPEDEAQ-C** corresponding to the C-terminal sequence of human HP1γ (Ref 2, 3) and purified by affinity purification with the peptide. The antiserum preparation has been directed by Prof. T. Haraguchi.

Product type	Primary antibodies
Host	Rabbit
Source	
Form	Liquid Affinity purified IgG, 0.75 mg/ml in 0.12 M sodium phosphate buffer (pH 7.4), 50% glycerol, filter-sterilized, azide free
Volume	50 µg
Concentration	
Specificity	HP1α/CBX5
Antigen	synthetic peptide CEDAENKEKETAKS corresponding to the amino acid sequence 179-191 of human HP1α
Isotype	IgG

Application notes	WB, IF, ChIP **Recommended use** **Recommended dilutions** Western blotting: 1/2,000~1/10,000 (Fig. 2 & Ref. 2) Immunofluorescence staining: (Ref. 2 & 3) Chromatin immunoprecipitation (ChIP): (Ref. 3) Optimal dilutions/concentrations should be determined by the end user. **Data Link:** UniProtKB/Swiss-Prot Q13185 (CBX3_HUMAN) **Staining Pattern**
Cross reactivity	Human and hamster. Expected to react with chicken, Xenopus, Drosophila, and zebra fish orthologs due to the sequence identity of the immunogen.
Storage	-20°C (long period, -70°C)
References (This product was used in references 2 and 3.)	1) Lomberk G *et al* "The Heterochromatin Protein 1 family" *Genome Biol* **7**: 228 Review (2006) PMID: 17224041 2) Kametaka A *et al* "Interaction of the chromatin compaction-inducing domain (LR domain) of Ki-67 antigen with HP1 proteins" *Genes Cells* **7**: 1231-1242 (2002) PMID: 12485163 3) Wang F et al "The assembly and maintenance of hetero-chromatin initiated by transgene repeats are independent of the RNA interference pathway in mammalian cells" Mol Cell Biol 26: 4028-4040 (2006) PMID: 16705157

Related Products

BAM-70-221-EX	Anti-HP1α antibody
BAM-70-223-EX	Anti-HP1β antibody

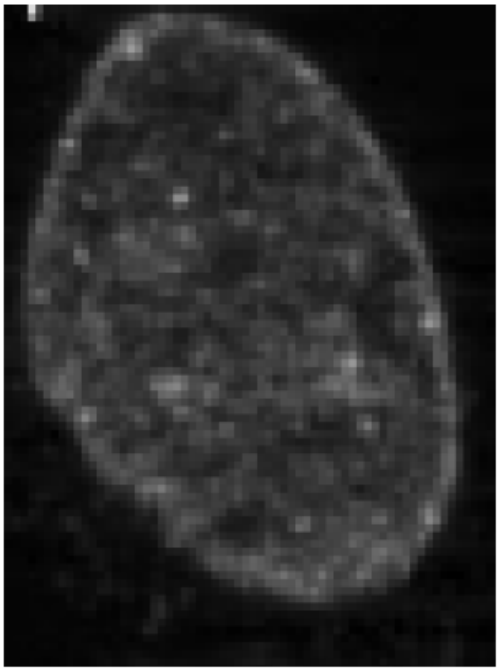

Fig. 1 Immunofluorescent staining of HP1γ in Baby Hamster Kidney cells with this antibody.
Cells were fixed with para-formaldehyde. The second antibody was Alexa Fluor 594-conjugated goat anti-rabbit IgG antibody.

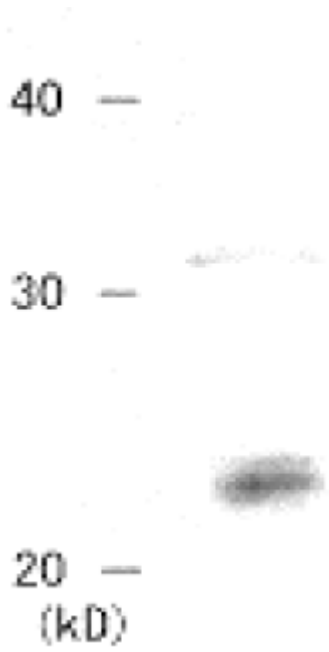

Fig. 2 Identification of HP1γ in crude cell extract by
Western blotting with this bantibody.
Sample: Baby Hamster Kidney cells

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