



Anti-HP1y/CBX3 antibody (rabbit), ChIP grade

70-225 100 μg

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, HP1y is encoded by the *Chromobox homolog 3* (CBX3) gene. HP1y 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 HP1y (Ref 2, 3) and purified by affinity purification with the peptide. The antiserum preparation has been directed by Prof. T. Haraguchi.

Applications

- 1) Western blot 1/2,000~1/10,000 Fig. 2 & Ref. 2
- 2) Immunofluorescence staining Ref. 2 & 3
- 3) Chromatin immunoprecipitation ChIP Ref. 3

Specification

Reactivity: Human and hamster. Expected to react with chicken, Xenopus, Drosophila, and zebra fish orthologs due to the sequence identity of the immunogen. Form: Affinity purified IgG, 0.75 mg/ml in 0.12 M sodium phosphate buffer (pH 7.4), 50% glycerol, filter-sterilized, azide free Storage: -20°C or long term storage -70°C

Data Link UniProtKB/Swiss-Prot Q13185 (CBX3_HUMAN)

References: This product was described and used in Ref 2 and 31. Lomberk G et al "The Heterochromatin Protein 1 family"Genome Biol 7: 228 Review (2006) PMID: 172240412. 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: 124851633. 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

 $\begin{array}{c} \mbox{Related product: $\#70-221$} & \mbox{Anti-HP1$$$$$$$$$$ antibody,} \\ & $\#70-223$ & \mbox{Anti-HP1$$$$$$$$$$$$$$$$ antibody} \end{array}$

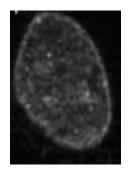


Fig. 1 Immunofluorescent staining of HP1y in Baby Hamster Kidney cells with this antibody. Cells were fixed with para-formaldehyde. The second antibody was Alexa Fluor 594-conjugated goat anti-rabbit IgG antibody.



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

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