Anti-HP1β/CBX1 antibody, rabbit polyclonal, ChIP grade

Product code	70-223
Size	50 µg
Storage	-20℃
Concentration	0.44 mg/ml
Buffer	0.12 M sodium phosphate buffer (pH 7.4) with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	synthetic peptide CNEDDDKKDDKN including the C-terminal sequence (176-185) of human HP1ß
Isotype	Rabbit IgG
Reactivity	Human and hamster. Expected to react with mouse, chicken, zebra fish, Xenopus and Drosophila orthologs due to the sequence identity of the immunogen.
Special notes	N/A
Application	1. Western blotting (～1/1,000 dilution) 2. ELISA
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, HP1ß is encoded by the Chromobox homolog 1 (CBX1) gene located on chromosome 17q21.32. HP1ß 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 CNEDDDKKDDKN including the C-terminal sequence (176-185) of human HP1ß (Ref.3) and purified by affinity purification with the peptide. The antiserum was prepared by the direction of Prof. T. Haraguchi (Ref. 3).
Data Link	UniProtKB P83916 (CBX1_HUMAN)

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Data Images: 70-223 Anti-HP1ß/CBX1 antibody, rabbit polyclonal, ChIP grade

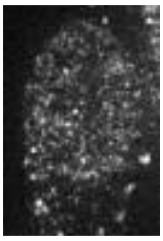

Fig. 1 Immunofluorescence staining of HP1ß in Baby Hamster Kidney cells with this antibody.
Cells were fixed with para-formaldehyde. The second antibody was Alexa Fluor 594- conjugated goat anti-rabbit IgG.

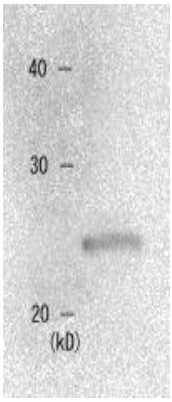

Fig.2 Identification of HP1ß by Western blotting with the antibody in the crude cell extract.
Sample: Extract of MCF7 cells
The antibody was used at 1,000 fold dilution.

References: This product was used in the following publication.

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 **ChIp, IF**

Related products

70-221 Anti-HP1α/CBX5 antibody, rabbit polyclonal
70-225 Anti-HP1γ/CBX3 antibody, rabbit polyclonal

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