

## Anti-HP1 $\gamma$ /CBX3 antibody (rabbit), affinity purified

70-225      50  $\mu$ g

Heterochromatin protein 1 (HP1) is a major component of heterochromatin and plays a role in assembly of various proteins on chromatin and gene silencing. The HP1 family is evolutionarily conserved, with members in fungi, plants and animals but not prokaryotes, and there are multiple members within the same species. The HP1 family of proteins is encoded by a class of genes known as the chromobox (CBX) genes. In humans, HP1  $\gamma$  is encoded by the *Chromobox homolog 3* (CBX3) gene. HP1  $\gamma$  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 HP1  $\gamma$  (Ref 2, 3) and by affinity purification with the peptide. The antiserum preparation has been directed by Prof. T. Haraguchi.

### Applications

- 1) Western blotting (1/2000~1/10000) (Fig. 2 & Ref 2)
- 2) Immunofluorescence staining (Ref. 2 & 3)
- 3) Chromatin immunoprecipitation (ChIP) (Ref. 3)

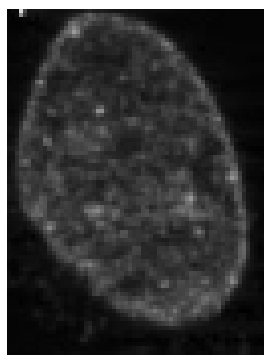
**Reactivity:** Human and hamster. Expected to react with chicken, Xenopus, Drosophila, and Zebra fish orthologs due to the sequence identity of the immunogen

**Form:** Affinity purified IgG, 0.75 mg/ml in 0.12 M sodium phosphate buffer (pH 7.4), 50% glycerol, sterile-filtered, azide free

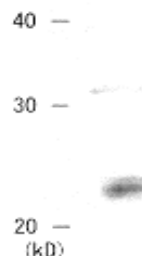
**Storage:** -20°C (long period, -70°C)

**References:** This product was used in references 2 and 3.

1. Lomber G et al. Genome Biol. 7, 228 (2006), review
2. Kametaka A et al. Genes Cells 7, 1231 (2002)
3. Wang F et al. Mol. Cell. Biol. 26, 4028 (2006)



**Fig. 1 Immunofluorescent staining of HP1  $\gamma$  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 HP1  $\gamma$  in crude cell extract with this antibody by western blotting.** Sample: Baby Hamster Kidney cells.

**Related product:** 70- Anti-HP1  $\alpha$  antibody, 70-225 Anti-HP1  $\beta$  antibody

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