

## Datasheet

### CBX5 polyclonal antibody

**Catalog Number:** PAB15580

**Regulation Status:** For research use only (RUO)

**Product Description:** Rabbit polyclonal antibody raised against synthetic peptide of CBX5.

**Immunogen:** A synthetic peptide corresponding to amino acids 179-191 of human CBX5.

**Sequence:** EDAENKEKETAKS

**Host:** Rabbit

**Reactivity:** Human

**Applications:** IF, WB-Ce

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Form:** Liquid

**Recommend Usage:** Western Blot (1:1000-1:3000)

Immunofluorescence (1:200-1:1000)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In 120 mM sodium phosphate buffer, pH 7.4 (50% glycerol)

**Storage Instruction:** Store at -20°C. For long term storage store at -80°C.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 23468

**Gene Symbol:** CBX5

**Gene Alias:** HP1, HP1A

**Gene Summary:** This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres.

The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq]

#### References:

1. The assembly and maintenance of heterochromatin initiated by transgene repeats are independent of the RNA interference pathway in mammalian cells. Wang F, Koyama N, Nishida H, Haraguchi T, Reith W, Tsukamoto T. *Mol Cell Biol.* 2006 Jun;26(11):4028-40.
2. The Heterochromatin Protein 1 family. Lomberg G, Wallrath L, Urrutia R. *Genome Biol.* 2006;7(7):228.
3. Interaction of the chromatin compaction-inducing domain (LR domain) of Ki-67 antigen with HP1 proteins. Kametaka A, Takagi M, Hayakawa T, Haraguchi T, Hiraoka Y, Yoneda Y. *Genes Cells.* 2002 Dec;7(12):1231-42.