

AP12234PU-N**Polyclonal Antibody to CBX4 / PC2 (C-term) - Purified**

Alternate names:	Chromobox protein homolog 4, E3 SUMO-protein ligase CBX4, Polycomb 2 homolog
Quantity:	0.4 ml
Concentration:	lot specific
Background:	Chromobox homolog 4 (CBX4 or Pc2) is a member of Drosophila Polycomb group gene family. The polycomb group (PcG) genes are essential for maintenance of appropriate expression patterns of developmental master regulators and thus are essential for proper development. Changes in expression of PcG proteins have been associated with cancer. CBX4 is a part of the cellular memory system that is responsible for the inheritance of gene activity by progeny cells. CBX4 is involved in maintaining the transcriptionally repressive state of genes. It modifies chromatin, rendering it heritably changed in its expressibility. Structurally, CBX4 contains 1 chromo domain. It was reported that Pc2 is involved in sumoylation process by recruiting SUMO E1 and E2, and Pc2 is actually SUMO E3 during sumoylation events. CBX4 expression is ubiquitous.
Uniprot ID:	000257
NCBI:	9606
GenelD:	8535
Host / Isotype:	Rabbit / Ig
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human CBX4.
Format:	State: Liquid purified Ig fraction. Purification: Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. Buffer System: PBS with 0.09% (W/V) Sodium Azide as preservative.
Applications:	ELISA: 1/1,000. Western Blot: 1/100-1/500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to CBX4 (C-term). Species: Human. Other species not tested.
Add. Information:	Predicted Molecular weight: 61228 Da
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Caution:	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

General Readings:

1. Claudius Vincenz, et al. PNAS, Oct 2008; 105: 16572 - 16577. (Applications: WB)
2. Jones, Marius C., et al. PNAS 2006 Oct 31;103(44):16272-16277. (Applications: WB)
3. Kagey, M.H., et al., Cell 113(1):127-137 (2003).
4. Satijn, D.P., et al., Mol. Cell. Biol. 17(10):6076-6086 (1997).

Pictures:

The anti-CBX4 (C-term) Pab (Cat.#AP12234PU-N) is used in Western blot to detect CBX4 in Jurkat cell lysate.

