

**AP07245PU-N****Polyclonal Antibody to CBX4 / PC2 (95-107) - Aff - Purified****Alternate names:**

Chromobox protein homolog 4, E3 SUMO-protein ligase CBX4, Polycomb 2 homolog

**Quantity:**

50 µg

**Concentration:**

1.36 mg/ml

**Background:**

PC2 is the human homolog of the Drosophila 'Polycomb' (Pc) protein which has been identified as a gene family member associated with a cellular memory system that is responsible for the inheritance of gene activity by progeny cells. The human Pc homolog gene is more closely related to a Xenopus Pc homolog, XPc, than to a previously described human Pc homolog, CBX2 (hPc1). However, the hPc2 and CBX2/hPc1 proteins are shown to colocalize in interphase nuclei of human U-2 OS osteosarcoma cells, suggesting that the proteins are part of a common protein complex. The human protein is believed to function as a repressor of proto-oncogene activity and that interference with hPc2 function can lead to derepression of proto-oncogene transcription and subsequently to cellular transformation. Other reports describe PC2 as a protein that has SUMO E3 activity for the corepressors CtBP and CtBP2.

**Uniprot ID:**[Q00257](#)**NCBI:**[NP\\_003646.2](#)**GeneID:**[8535](#)**Host:**

Rabbit

**Immunogen:**

Synthetic peptide from aa 95-107 of human CBX4

**Format:****State:** Liquid purified Ig**Purification:** Immunoaffinity Chromatography**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide**Applications:****ELISA:** 1/10000 - 1/40000.**Immunofluorescence:** 1/100 - 1/400.**Immunohistochemistry on Paraffin Sections:** 2.5 µg/ml.**Western Blot:** 1/1000 - 1/4000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

This antibody reacts to aa 95-107 of PC2 protein.

**Species Reactivity:****Tested:** Human, Mouse**Storage:**

Store 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.

**Pictures:**

Colon: Formalin-Fixed Paraffin-Embedded (FFPE)

