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AP12233PU-N Polyclonal Antibody to CBX4 / PC2 (N-term) - Purified

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

Quantity: 0.4 ml

Concentration: lot specific

Background: CBX4 is a member of Drosophila Polycomb group gene family. The polycomb group (PcG) genes are essential for maintenance of proper expression patterns of developmental master regulators; changes in expression pf PcG proteins have been associated with cancer. CBX4 is a part of the cellular memory system responsible for the inheritance of gene activity by progeny cells. It participates in maintaining the transcriptionally repressive state of genes. CBX4 is part of acomplex that acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. CBX4 is an E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I.

Uniprot ID: O00257

NCBI: 9606

GeneID: 8535

Host / Isotype: Rabbit / Ig

Immunogen: This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-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.
Immunohistochemistry: 1/50-1/100.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody is specific to CBX4 (N-term).
Species: Human and Mouse.
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. Kagey, M.H., et al., Cell 113(1):127-137 (2003).
2. Satijn, D.P., et al., Mol. Cell. Biol. 17(10):6076-6086 (1997).

Pictures:

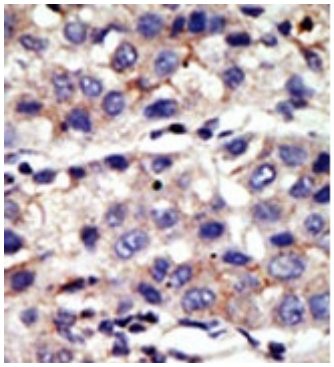

Figure 2. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

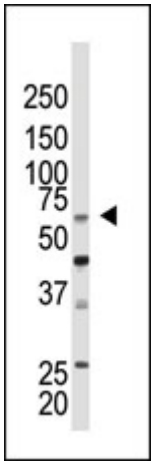

Figure 1. Western blot analysis using anti-CBX4 (N-term) Pab (Cat.#AP12233PU-N) to detect CBX4 in Mouse kidney tissue lysate.