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CBX8 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2515b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9HC52
Other Accession	Q9QXV1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2937
Calculated MW	43396
Antigen Region	306-337

Additional Information

Gene ID	57332
Other Names	Chromobox protein homolog 8, Polycomb 3 homolog, Pc3, hPc3, Rectachrome 1, CBX8, PC3, RC1
Target/Specificity	This CBX8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 306-337 amino acids from the C-terminal region of human CBX8.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CBX8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CBX8
Synonyms	PC3, RC1
Function	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a

complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.

Cellular Location Nucleus.

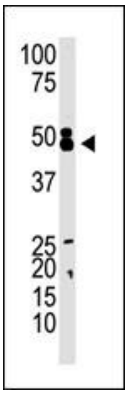
Background

Chromobox homolog 8 (CBX8 or Pc3) 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. CBX8 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, which is 40 to 50 amino acids long.

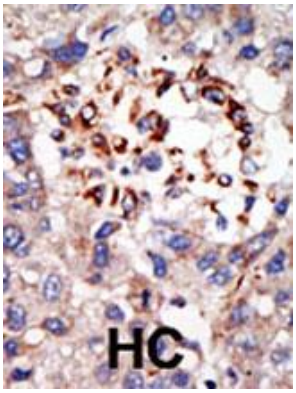
References

Ota, T., et al., Nat. Genet. 36(1):40-45 (2004).
Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).
Bardos, J.I., et al., J. Biol. Chem. 275(37):28785-28792 (2000).

Images

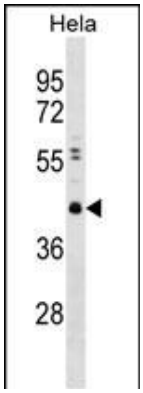


The anti-CBX8 C-term Pab (Cat. #AP2515b) is used in Western blot to detect CBX8 in mouse kidney tissue lysate.



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

CBX8 Antibody (Y321) (Cat. #AP2515b) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the CBX8 antibody detected the CBX8 protein (arrow).



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