

CBX7 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21163a

Specification

CBX7 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O95931
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	28341

CBX7 Antibody (C-term) - Additional Information

Gene ID 23492

Other Names

Chromobox protein homolog 7, CBX7

Target/Specificity

This CBX7 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 168-201 amino acids from the C-terminal region of human CBX7.

Dilution

WB~~1:500

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

CBX7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CBX7 Antibody (C-term) - Protein Information

Name CBX7

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. Promotes histone H3 trimethylation at 'Lys-9' (H3K9me3). Binds to trimethylated lysine residues in histones, and possibly also other proteins. Regulator of cellular lifespan by maintaining the repression of CDKN2A, but not by inducing telomerase activity.

Cellular Location

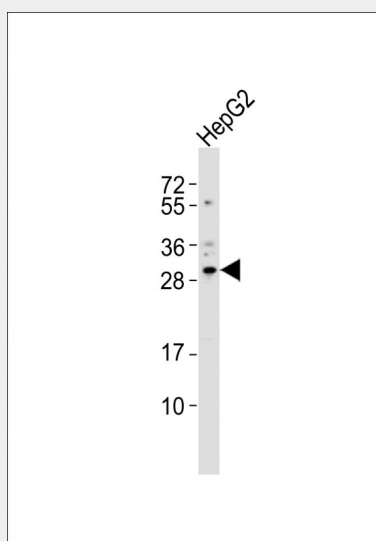
Nucleus

CBX7 Antibody (C-term) - Protocols

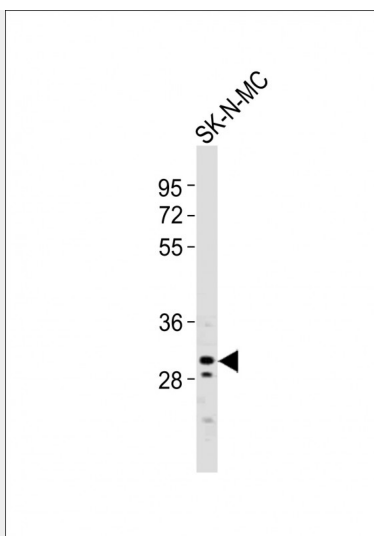
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBX7 Antibody (C-term) - Images



Anti-CBX7 Antibody (C-term) at 1:1000 dilution + HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-CBX7 Antibody (C-term) at 1:500 dilution + SK-N-MC whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

CBX7 Antibody (C-term) - Background

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. Promotes histone H3 trimethylation at 'Lys-9' (H3K9me3). Binds to trimethylated lysine residues in histones, and possibly also other proteins. Regulator of cellular lifespan by maintaining the repression of CDKN2A, but not by inducing telomerase activity.

CBX7 Antibody (C-term) - References

- Dunham I., et al. Nature 402:489-495(1999).
- Gil J., et al. Nat. Cell Biol. 6:67-72(2004).
- Bezsonova I., et al. Biochemistry 48:10542-10548(2009).
- Maertens G.N., et al. PLoS ONE 4:E6380-E6380(2009).
- Li Q., et al. PLoS ONE 5:E13732-E13732(2010).