

**KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1210****Specification****KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">Q14781</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 56 kDa , observed, 56 kDa KDa
Gene Name	CBX2
Aliases	CBX2; Chromobox 2; M33; Cell Division Cycle Associated 6; Chromobox Protein Homolog 2; MGC10561; CDCA6; Chromobox Homolog 2 (Pc Class Homolog, Drosophila); Chromobox Homolog 2 (Drosophila Pc Class); Pc Class Homolog (Drosophila); Chromobox Homolog 2; Pc Class Homolog; Modifier 3; SRXY5
Immunogen	A synthesized peptide derived from human CBX2

**KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody - Additional Information**

Gene ID 84733

**Other Names**

Chromobox protein homolog 2, CBX2

**KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody - Protein Information****Name** CBX2**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 (PubMed: [21282530](http://www.uniprot.org/citations/21282530)). 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 (PubMed: [21282530](http://www.uniprot.org/citations/21282530)). Binds to histone H3 trimethylated at 'Lys-9' (H3K9me3) or at 'Lys-27' (H3K27me3) (By similarity). Plays a role in the lineage differentiation of the germ layers in embryonic development (By similarity). Involved in sexual development, acting as activator of NR5A1 expression (PubMed: [19361780](http://www.uniprot.org/citations/19361780)).

**Cellular Location**

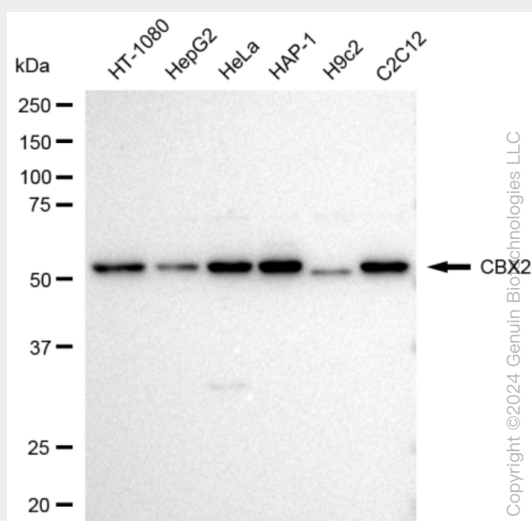
Nucleus. Chromosome Note=Localized in distinct foci on chromatin and in chromocenters  
Localizes to the inactive X chromosome. Seems to be recruited to H3K27me3, H3K9ac and H3K3me2 sites on chromatin

## KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody - Protocols

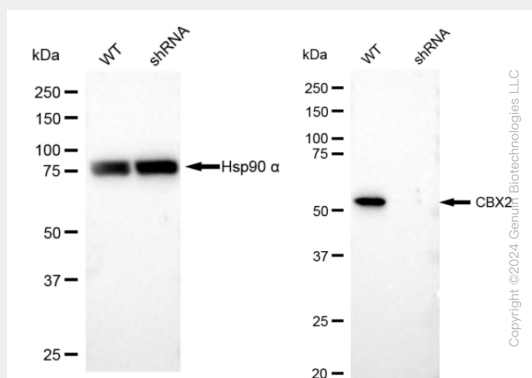
Provided below are standard protocols that you may find useful for product applications.

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

## KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody - Images

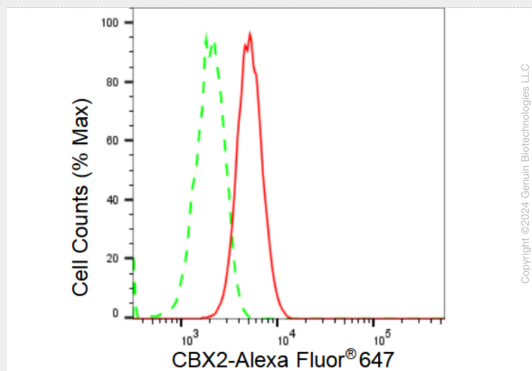


Western blotting analysis using anti-CBX2 antibody (Cat#AGI1210). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CBX2 antibody (Cat#AGI1210, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

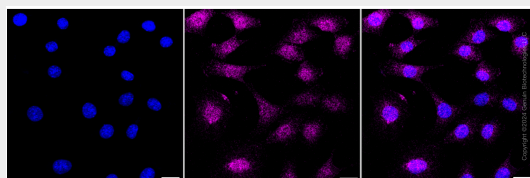


Western blotting analysis using anti-CBX2 antibody (Cat#AGI1210). CBX2 expression in wild type

(WT) and CBX2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CBX2 antibody (Cat#AGI1210, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CBX2 expression in C2C12 cells using CBX2 antibody (Cat#AGI1210, 1:2,000). Green, isotype control; red, CBX2.



Immunocytochemical staining of C2C12 cells with CBX2 antibody (Cat#AGI1210, 1:1,000). Nuclei were stained blue with DAPI; CBX2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.