

KD-Validated Anti-CBX2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1210

Product Information

Application	WB, FC, ICC
Primary Accession	Q14781
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3345
Calculated MW	56081
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

Additional Information

Gene ID	84733
Other Names	Chromobox protein homolog 2, CBX2

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). 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). 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).
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

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