

CBX1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2063a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P83916
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4D7B8
Isotype	IgG1
Calculated MW	21418
Description	This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family . The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The protein may play an important role in the epigenetic control of chromatin structure and gene expression. Several related pseudogenes are located on chromosomes 1, 3, and X. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Immunogen	Purified recombinant fragment of human CBX1 (AA: 1-185) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	10951
Other Names	Chromobox protein homolog 1, HP1Hsbeta, Heterochromatin protein 1 homolog beta, HP1 beta, Heterochromatin protein p25, M31, Modifier 1 protein, p25beta, CBX1, CBX
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CBX1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CBX1
Synonyms	CBX
Function	Component of heterochromatin. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. Interaction with lamin B receptor (LBR) can contribute to the association of the heterochromatin with the inner nuclear membrane.
Cellular Location	Nucleus Note=Unassociated with chromosomes during mitosis
Tissue Location	Expressed in all adult and embryonic tissues.

References

1.Endocr Relat Cancer. 2010 May 18;17(2):455-67.2.Am J Pathol. 2011 Feb;178(2):672-8.

Images

