

CBX1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2063a**Specification****CBX1 Antibody - Product Information**

Application	WB, IHC, FC, ICC, E
Primary Accession	P83916
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	21.4kDa KDa

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

CBX1 Antibody - 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.

CBX1 Antibody - 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.

CBX1 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](#)