

Product datasheet

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ARG43210 anti-CBX1 / HP1 beta antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes CBX1 / HP1 beta

Tested Reactivity Hu
Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CBX1 / HP1 beta

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-185 of Human CBX1 / HP1 beta (NP_006798.1).

Conjugation Un-conjugated

Alternate Names MOD1; Chromobox protein homolog 1; HP1 beta; M31; HP1Hs-beta; Modifier 1 protein;

Heterochromatin protein p25; HP1-BETA; Heterochromatin protein 1 homolog beta; CBX; HP1Hsbeta;

p25beta

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	OVCAR-3	
Observed Size	~ 25 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CBX1

Gene Full Name chromobox homolog 1

Background 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

 $alternatively\ spliced\ variants,\ encoding\ the\ same\ protein,\ have\ been\ identified.\ [provided\ by\ RefSeq,\ Julian Seq.\ And\ Seq.\ Mathematical Seq.\ Mathe$

2008]

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

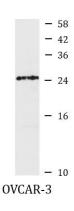
heterochromatin with the inner nuclear membrane. [UniProt]

Calculated Mw 21 kDa

PTM Not phosphorylated. Ubiquitinated. [UniProt]

Cellular Localization Nucleus. Note=Unassociated with chromosomes during mitosis. [UniProt]

Images



ARG43210 anti-CBX1 / HP1 beta antibody WB image

Western blot: 25 μg of OVCAR-3 cell lysate stained with ARG43210 anti-CBX1 / HP1 beta antibody at 1:1000 dilution.