

Product Name: KD-Validated Chromobox Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01435

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 22.2kDa

Antigen Information

Gene Name	CBX5
Alternative Names	CBX5; Chromobox ; HP1-ALPHA; HP1; Chromobox Homolog 5 (HP1 Alpha Homolog, Drosophila); Heterochromatin Protein 1 Homolog Alpha; Chromobox Protein Homolog 5; HP1Hs-Alpha; Antigen P25; HP1alpha; HP1A; Chromobox Homolog 5 (Drosophila HP1 Alpha); Heterochromatin Protein 1-Alpha; HP1 Alpha Homolog (Drosophila); Epididymis Luminal Protein 25; Chromobox Homolog 5; HP1 Alpha Homolog; HP1Hs Alpha; HP1 Alpha; HEL25
Gene ID	23468.0
SwissProt ID	P45973
Immunogen	A synthesized peptide derived from human HP1 alpha

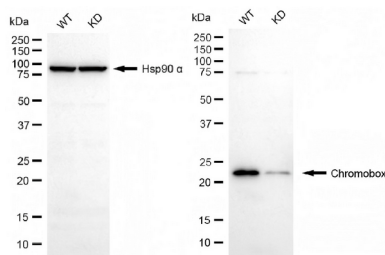
Background

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 encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]

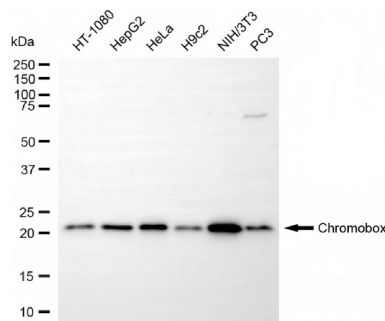
Research Area

Epigenetics and Nuclear Signaling, Tags & Cell Markers

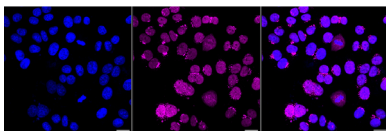
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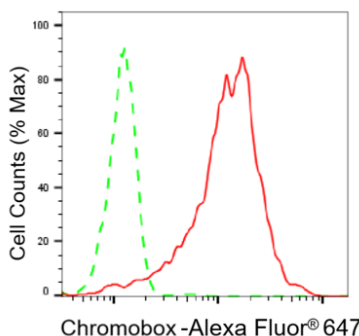
Western blotting analysis using chromobox 5 antibody (KVA01435). Chromobox 5 expression in wild-type (WT) and chromobox 5 (CBX5) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with chromobox 5 antibody (KVA01435, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using chromobox 5 antibody (KVA01435). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with chromobox 5 antibody (KVA01435, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Chromobox 5 antibody (KVA01435, 1:1,000). Nuclei were stained blue with DAPI; Chromobox 5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Chromobox 5 expression in HepG2 cells using Chromobox 5 antibody (KVA01435, 1:2,000). Green, isotype control; red, Chromobox 5.

