

ARG53997 anti-CBX3 / HP1 gamma antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes CBX3 / HP1 gamma
Tested Reactivity	Hu, Ms, Rat, Hm, Mk
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	CBX3 / HP1 gamma
Species	Human
Immunogen	Purified recombinant Human HP1 gamma protein fragments.
Conjugation	Un-conjugated
Alternate Names	HP1-GAMMA; Chromobox protein homolog 3; HP1Hs-gamma; HP1 gamma; HECH; Heterochromatin protein 1 homolog gamma; Modifier 2 protein

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200
	IHC-P	1:200
	IP	Assay-dependent
	WB	1:1000

Application Note IHC-P: Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size 22 kDa

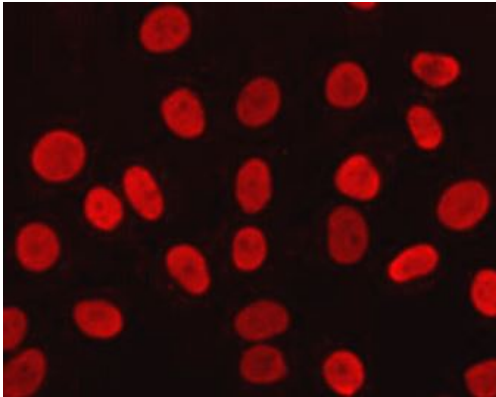
Properties

Form	Liquid
Purification	Affinity purified
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	0.75 mg/ml

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.

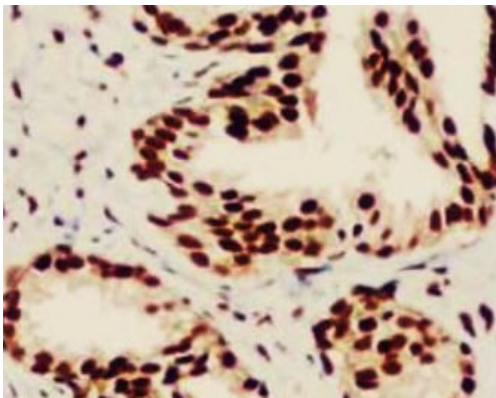
Bioinformation

Database links	GeneID: 11335 Human Swiss-port # Q13185 Human
Gene Symbol	CBX3
Gene Full Name	chromobox homolog 3
Background	Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR). Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.
Function	Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR). Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins. Contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation, mediates the recruitment of the methyltransferases SUV39H1 and/or SUV39H2 by the PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1. [UniProt]
Highlight	<p>Related Antibody Duos and Panels: ARG30341 Heterochromatin Foci Antibody Duo</p> <p>Related products: CBX3 antibodies: CBX3 Duos / Panels: Anti-Mouse IgG secondary antibodies:</p> <p>Related news: Senescence Marker Antibody Panel is launched</p>
Research Area	Gene Regulation antibody
Calculated Mw	21 kDa
PTM	Phosphorylated by PIM1. Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis.
Cellular Localization	Nucleus



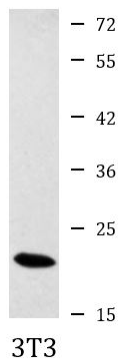
ARG53997 anti-CBX3 / HP1 gamma antibody ICC/IF image

Immunofluorescence: HeLa cells fixed with 4% Paraformaldehyde and stained with ARG53997 anti-CBX3 / HP1 gamma antibody at 1:200 dilution.



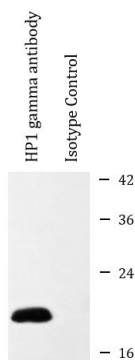
ARG53997 anti-CBX3 / HP1 gamma antibody IHC-P image

Immunohistochemistry: Paraffin-embedded prostate cancer tissue stained with ARG53997 anti-CBX3 / HP1 gamma antibody at 1:200 dilution. Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.0).



ARG53997 anti-CBX3 / HP1 gamma antibody WB image

Western blot: 3T3 cell lysate stained with ARG53997 anti-CBX3 / HP1 gamma antibody at 1:1000 dilution.



ARG53997 anti-CBX3 / HP1 gamma antibody IP image

Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG53997 anti-CBX3 / HP1 gamma antibody.