

Product datasheet

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ARG53998 anti-HP1 alpha antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes CBX5

Tested Reactivity Hu, Ms

Tested Application ICC/IF, IHC-P, WB

Host Mouse

Clonality Monoclonal

Isotype IgG2b

Target Name HP1 alpha

Species Human

Immunogen Purified recombinant human HP1 alpha protein fragments expressed in E.coli.

Conjugation Un-conjugated

Alternate Names Heterochromatin protein 1 homolog alpha; Chromobox protein homolog 5; HP1; HP1 alpha; Antigen

p25; HEL25; HP1A

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:300
	IHC-P	1:400
	WB	1:1000
Application Note	IHC-P: Antigen Retrieval: High pressure mediate and 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	26 kDa	

Properties

Form	Liquid	
Purification	Affinity purified	
Buffer	0.1M Tris-Glycine (pH 7.4), 150 mM NaCl, 0.2% Sodium azide and 50% Glycerol	
Preservative	0.2% Sodium azide	
Stabilizer	50% Glycerol	
Concentration	1 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.	

Bioinformation

Database links GenelD: 12419 Mouse

GeneID: 23468 Human

Swiss-port # P45973 Human

Swiss-port # Q61686 Mouse

Gene Symbol CBX5

Gene Full Name chromobox homolog 5

Background Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9'

(H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph). Can interact with lamin-B receptor (LBR). This interaction can contribute to the association of the heterochromatin with the inner nuclear membrane. Involved in the

formation of functional kinetochore through interaction with MIS12 complex proteins

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Research Area Controls and Markers antibody; Gene Regulation antibody

Calculated Mw 22 kDa

PTM Phosphorylation of HP1 and LBR may be responsible for some of the alterations in chromatin

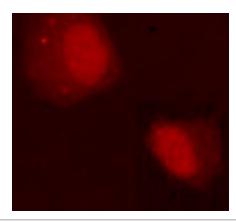
organization and nuclear structure which occur at various times during the cell cycle (By similarity).

Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis.

Ubiquitinated.

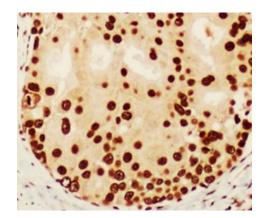
Cellular Localization Nucleus. Chromosome

Images



ARG53998 anti-HP1 alpha antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG53998 anti-HP1 alpha antibody at 1:300 dilution.



ARG53998 anti-HP1 alpha antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma stained with ARG53998 anti-HP1 alpha antibody at 1:400 dilution. Antigen Retrieval: High pressure mediate and boil tissue section in Citrate buffer (pH 6.0).



ARG53998 anti-HP1 alpha antibody WB image

Western blot: 293T cell lysate stained with ARG53998 anti-HP1 alpha antibody at 1:1000 dilution.