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Mouse Monoclonal Antibody to CBX7

Purified Mouse Monoclonal Antibody
Catalog # AO2489a

Product Information

Application	WB, E
Primary Accession	O95931
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3H9C4
Isotype	Mouse IgG1
Calculated MW	28341
Description	CBX7 (Chromobox 7) is a Protein Coding gene. GO annotations related to this gene include chromatin binding and single-stranded RNA binding. An important paralog of this gene is CBX4.;
Immunogen	Purified recombinant fragment of human CBX7 (AA: 15-147) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000;

Additional Information

Gene ID	23492
Other Names	Chromobox protein homolog 7, CBX7
Dilution	WB~~1:1000 E~~N/A
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	Mouse Monoclonal Antibody to CBX7 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CBX7
Function	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1

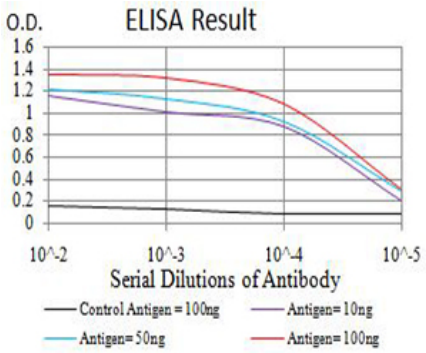
complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. Promotes histone H3 trimethylation at 'Lys-9' (H3K9me3). Binds to trimethylated lysine residues in histones, and possibly also other proteins. Regulator of cellular lifespan by maintaining the repression of CDKN2A, but not by inducing telomerase activity.

Cellular Location Nucleus

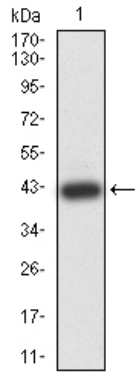
References

1.PLoS One. 2014 May 27;9(5):e98295. ; 2.Eur J Cancer. 2010 Aug;46(12):2304-13.;

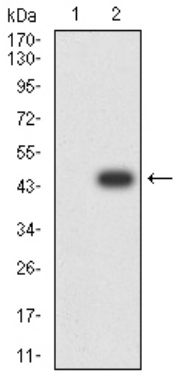
Images



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using CBX7 mAb against human CBX7 (AA: 15-147) recombinant protein. (Expected MW is 41.6 kDa)



Western blot analysis using CBX7 mAb against HEK293 (1) and CBX7 (AA: 15-147)-hIgGFc transfected HEK293 (2) cell lysate.