10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CBX8 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2266a

Product Information

Application	WB, FC, E
Primary Accession	Q9HC52
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	9C3D4
Isotype	IgG2b
Calculated MW	43396
Description	Chromobox homolog 8 (CBX8), a Polycomb Group protein that interacts with MLL-AF9 and TIP60, plays an essential role in MLL-AF9 transcriptional regulation and leukemogenesis. CBX8, which is part of one of the PRC1 complexes, regulates proliferation of diploid human and mouse fibroblasts through direct binding to the INK4A-ARF locus.
Immunogen	Purified recombinant fragment of human CBX8 (AA: 17-222) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	57332
Other Names	Chromobox protein homolog 8, Polycomb 3 homolog, Pc3, hPc3, Rectachrome 1, CBX8, PC3, RC1
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
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	CBX8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CBX8
Synonyms	PC3, RC1

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.
Cellular Location	Nucleus.

References

1.Cancer Cell. 2011 Nov 15;20(5):563-75. 2.EMBO J. 2007 Mar 21;26(6):1637-48.

Images

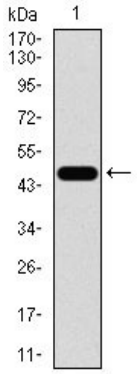

Figure 1: Western blot analysis using CBX8 mAb against human CBX8 recombinant protein. (Expected MW is 49.5 kDa)

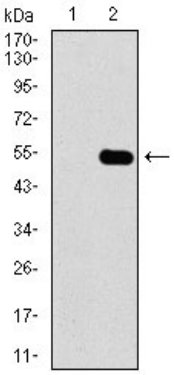

Figure 2: Western blot analysis using CBX8 mAb against HEK293 (1) and CBX8 (AA: 17-222)-hIgGFc transfected HEK293 (2) cell lysate.

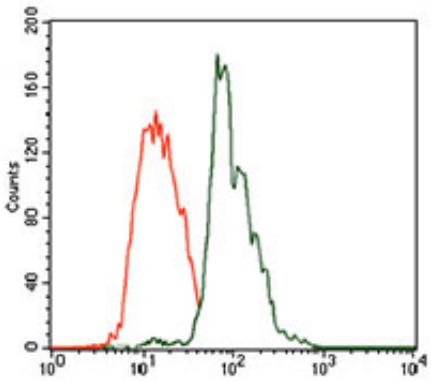

Figure 3: Flow cytometric analysis of HEK293 cells using CBX8 mouse mAb (green) and negative control (red).