CBX8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CBX8, Polyclonal Antibody
Full Product Name	CBX8, ID (CBX8, PC3, RC1, Chromobox protein homolog 8, Polycomb 3 homolog, Rectachrome 1) (MaxLight 550)
Product Gene Name	anti-CBX8 antibody
Product Synonym Names	CBX8; PC3; RC1; Chromobox protein homolog 8; Polycomb 3 homolog; Rectachrome 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,396 Da
3D Structure	ModBase 3D Structure for Q9HC52
Immunogen	CBX8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-189 amino acids from the Central region of human CBX8.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CBX8 antibody	Antibodies; Chromatin Proteins
Applications Tested/Suitable for anti-CBX8 antibody	Western Blot (WB), FLISA
Application Notes for anti-CBX8 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CBX8 antibody	Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex 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.
Product References and Citations for anti-CBX8 antibody	Dietrich, N., et al. EMBO J. 26(6):1637-1648(2007). Olsen, J.V., et al. Cell 127(3):635-648(2006). Stelzl, U., et al. Cell 122(6):957-968(2005). Obuse, C., et al. Genes Cells 9(2):105-120(2004). Levine, S.S., et al. Mol. Cell. Biol. 22(17):6070-6078(2002).
Other Notes	Small volumes of anti-CBX8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CBX8 purchase	MBS6281251 is an antibody targeting CBX8. Also known as CBX8, ID (CBX8, PC3, RC1, Chromobox protein homolog 8, Polycomb 3 homolog, Rectachrome 1) (MaxLight 550). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBX8. It may not necessarily be applicable to this product.

NCBI GI #	10190682
NCBI GeneID	57332
NCBI Accession #	NP_065700.1
UniProt Primary Accession #	Q9HC52
UniProt Secondary Accession #	Q96H39; Q9NR07
UniProt Related Accession #	Q9HC52
GenBank Nucleotide #	NM_020649.2
NCBI Official Full Name	chromobox protein homolog 8
NCBI Official Synonym Full Names	chromobox 8
NCBI Official Symbol	CBX8
NCBI Official Synonym Symbols	PC3; RC1
UniProt Protein Name	Chromobox protein homolog 8
UniProt Synonym Protein Names	Polycomb 3 homolog; Pc3; hPc3; Rectachrome 1
Protein Family	Chromobox protein
UniProt Gene Name	CBX8
UniProt Synonym Gene Names	PC3; RC1; Pc3; hPc3
UniProt Entry Name	CBX8_HUMAN
NCBI Protein Information	chromobox protein homolog 8
UniProt Comments for CBX8	CBX8: 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. Protein type: Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: nucleoplasm; heterochromatin; nuclear chromatin; PcG protein complex; nucleus Molecular Function: protein binding; single-stranded RNA binding; ubiquitin-protein ligase activity; methylated histone residue binding Biological Process: transcription, DNA-dependent; histone ubiquitination; negative regulation of transcription from RNA polymerase II promoter
Research Articles on CBX8	**1.** Low CBX8 expression was associated with distant metastasis in colorectal cancer.
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