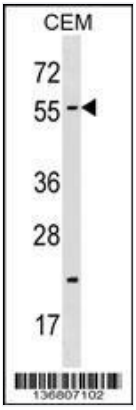
CBX4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CBX4, Polyclonal Antibody
Full Product Name	CBX4, NT (CBX4, E3 SUMO-protein ligase CBX4, Chromobox protein homolog 4, Polycomb 2 homolog) (FITC)
Product Gene Name	anti-CBX4 antibody
Product Synonym Names	CBX4; E3 SUMO-protein ligase CBX4; Chromobox protein homolog 4; Polycomb 2 homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	31,987 Da
OMIM	603079
3D Structure	ModBase 3D Structure for O00257
Immunogen	CBX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CBX4.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CBX4 antibody	Antibodies; Chromatin Proteins
Applications Tested/Suitable for anti-CBX4 antibody	Western Blot (WB), FLISA
Application Notes for anti-CBX4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CBX4 antibody	E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. 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-CBX4 antibody	Seong, I.S., et al. Hum. Mol. Genet. 19(4):573-583(2010). Zhou, W., et al. BMB Rep 42(3):154-159(2009). Liang, G., et al. Hum. Mol. Genet. 17(8):1109-1119(2008). Kim, S.H., et al. Int. J. Biochem. Cell Biol. 40(11):2462-2471(2008). Kabil, O., et al. Biochemistry 45(45):13528-13536(2006).

Other Notes	Small volumes of anti-CBX4 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 CBX4 purchase	MBS6281214 is an antibody targeting CBX4. Also known as CBX4, NT (CBX4, E3 SUMO-protein ligase CBX4, Chromobox protein homolog 4, Polycomb 2 homolog) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CBX4 antibody
CBX4 Antibody (N-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the CBX4 antibody detected the CBX4 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBX4. It may not necessarily be applicable to this product.

NCBI GI #	55770830
NCBI GeneID	8535
NCBI Accession #	NP_003646.2
UniProt Primary Accession #	O00257
UniProt Secondary Accession #	Q6TPI8; Q96C04; B1PJR7
UniProt Related Accession #	O00257
GenBank Nucleotide #	NM_003655.2
NCBI Official Full Name	E3 SUMO-protein ligase CBX4
NCBI Official Synonym Full Names	chromobox homolog 4
NCBI Official Symbol	CBX4
NCBI Official Synonym Symbols	PC2; NBP16
UniProt Protein Name	E3 SUMO-protein ligase CBX4
UniProt Synonym Protein Names	Chromobox protein homolog 4; Polycomb 2 homolog; Pc2; hPc2
Protein Family	E3 SUMO-protein ligase
UniProt Gene Name	CBX4
UniProt Synonym Gene Names	Pc2; hPc2
UniProt Entry Name	CBX4_HUMAN
NCBI Protein Information	E3 SUMO-protein ligase CBX4; Pc class 2 homolog; polycomb 2 homolog; NS5ATP1-binding protein 16; chromobox protein homolog 4; chromobox homolog 4 (Pc class homolog, Drosophila)

UniProt Comments for CBX4	CBX4: E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor; SUMO ligase; EC 6.3.2.- Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: nucleoplasm; nuclear speck; PcG protein complex; nucleus Molecular Function: protein binding; enzyme binding; single-stranded RNA binding; SUMO binding; phosphoprotein binding; chromatin binding; transcription corepressor activity; methylated histone residue binding; ligase activity Biological Process: protein sumoylation; transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; chromatin modification; negative regulation of transcription, DNA-dependent; negative regulation of apoptosis
Research Articles on CBX4	**1.** The presence of CBX4-GFP in the same focus had a minor impact on BMI1 and RING1 recovery kinetics.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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