CBX2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CBX2, Monoclonal Antibody
Full Product Name	Mouse Monoclonal Antibody to CBX2
Product Gene Name	anti-CBX2 antibody
Product Synonym Names	M33; CDCA6; SRXY5
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4D10B2
Host	Mouse
Molecular Weight	56kDa
OMIM	602770
3D Structure	ModBase 3D Structure for Q14781
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CBX2 antibody	Western Blot (WB)
Application Notes for anti-CBX2 antibody	Western blot using Recombinant protein Western blot using Transfection expressed protein Western blot using Cell lysate
Related Product Information for anti-CBX2 antibody	MBS8528351 is an antibody targeting CBX2. Also known as Mouse Monoclonal Antibody to CBX2. Host: Mouse.
Other Notes	Small volumes of anti-CBX2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBX2. It may not necessarily be applicable to this product.

NCBI GI #	61743963
NCBI GeneID	84733
NCBI Accession #	NP_005180.1
UniProt Primary Accession #	Q14781
UniProt Secondary Accession #	Q0VDA5; Q9BTB1
UniProt Related Accession #	Q14781
GenBank Nucleotide #	NM_005189.2
NCBI Official Full Name	chromobox protein homolog 2 isoform 1
NCBI Official Synonym Full Names	chromobox 2

NCBI Official Symbol	CBX2
NCBI Official Synonym Symbols	M33; CDCA6; SRXY5
UniProt Protein Name	Chromobox protein homolog 2
Protein Family	Chromobox protein
UniProt Gene Name	CBX2
NCBI Protein Information	chromobox protein homolog 2
NCBI Summary for CBX2	This gene encodes a component of the polycomb multiprotein complex, which is required to maintain the transcriptionally repressive state of many genes throughout development via chromatin remodeling and modification of histones. Disruption of this gene in mice results in male-to-female gonadal sex reversal. Mutations in this gene are also associated with gonadal dysgenesis in humans. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Mar 2010]
UniProt Comments for CBX2	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 (PubMed:21282530). 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 (PubMed:21282530). Binds to histone H3 trimethylated at 'Lys-9' (H3K9me3) or at 'Lys-27' (H3K27me3) (). Plays a role in the lineage differentiation of the germ layers in embryonic development (). Involved in sexual development, acting as activator of NR5A1 expression (PubMed:19361780).
Research Articles on CBX2	**1.** These results suggest that CBX2's phosphorylation is critical for its transcriptional repression of target genes.
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