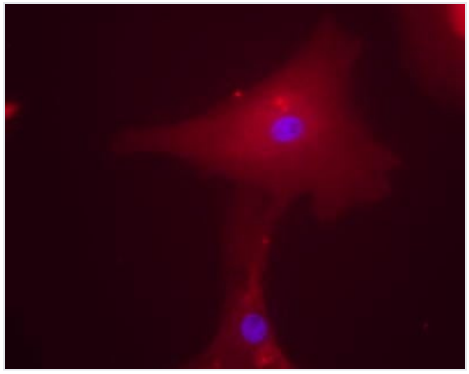
WBSCR14 (MLXIPL) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	WBSCR14 (MLXIPL), Polyclonal Antibody
Full Product Name	WBSCR14 (Williams Beuren Syndrome Chromosome Region 14, Williams-Beuren Syndrome Chromosome Region 14 Protein, Carbohydrate Responsive Element Binding Protein, CHREBP, MIO, MLX Interacting Protein-like, MLXIPL, Mlx Interactor, MONDOB, WS Basic Helix-loop-
Product Gene Name	anti-MLXIPL antibody
Product Synonym Names	Anti -WBSCR14 (Williams Beuren Syndrome Chromosome Region 14, Williams-Beuren Syndrome Chromosome Region 14 Protein, Carbohydrate Responsive Element Binding Protein, CHREBP, MIO, MLX Interacting Protein-like, MLXIPL, Mlx Interactor, MONDOB, WS Basic Helix-loop-
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in Tris-citrate/phospate, pH 7.5, 0.01% sodium azide.
Purity/Purification	Affinity Purified Purified by affinity chromatography.
Specificity	Recognizes human ChREBP. Species Sequence Homology: mouse; 93% and rat; 87%
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	93,073 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (73007524..73038870, complement). Location: 7q11.23
OMIM	605678
3D Structure	ModBase 3D Structure for Q9NP71
Immunogen	Synthetic peptide corresponding to residues 50-150 of human ChREBP protein (NP_116569.1).
Product Categories/Family for anti-MLXIPL antibody	Antibodies; Abs to Disease Markers
Applications Tested/Suitable for anti-MLXIPL antibody	Immunofluorescence (IF)
Application Notes for anti-MLXIPL antibody	Suitable for use in Immunofluorescence. Dilution: Immunofluorescence: 1:100-1:500
Related Product Information for anti-MLXIPL antibody	ChREBP is a transcription factor involved in activating genes that encode enzymes of fatty acid biosynthesis in liver and adipose. This protein may have relevance to lipid metabolism, obesity, and type II diabetes.
Other Notes	Small volumes of anti-MLXIPL 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 MLXIPL purchase	MBS623138 is an antibody targeting MLXIPL. Also known as WBSCR14 (Williams Beuren Syndrome Chromosome Region 14, Williams-Beuren Syndrome Chromosome Region 14 Protein, Carbohydrate Responsive Element Binding Protein, CHREBP, MIO, MLX Interacting Protein-like, MLXIPL, Mlx Interactor, MONDOB, WS Basic Helix-loop-. Reactive in Human. Host: Rabbit.



Immunofluorescence (IF) of anti-MLXIPL antibody
Immunofluorescent staining of a human hepatocyte using MBS623138. Overlay staining of ChREBP (rhodamine red) and DAPI nuclear staining (blue).

ADDITIONAL DETAILS

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

NCBI GI #	14602439
NCBI GeneID	51085
NCBI Accession #	NP_116572.1
UniProt Primary Accession #	Q9NP71
UniProt Secondary Accession #	Q96E48; Q9BY03; Q9BY04; Q9BY05; Q9BY06; Q9Y2P3; C5HU02; C5HU03; C5HU04
UniProt Related Accession #	Q9NP71
GenBank Nucleotide #	NM_032954.2
NCBI Official Full Name	Williams-Beuren syndrome chromosomal region 14 protein isoform delta
NCBI Official Synonym Full Names	MLX interacting protein-like
NCBI Official Symbol	MLXIPL
NCBI Official Synonym Symbols	MIO; CHREBP; MONDOB; WBSCR14; WS-bHLH; bHLHd14
UniProt Protein Name	Williams-Beuren syndrome chromosomal region 14 protein
UniProt Synonym Protein Names	Class D basic helix-loop-helix protein 14; bHLHd14; MLX interactor; MLX-interacting protein-like; WS basic-helix-loop-helix leucine zipper protein
Protein Family	Carbohydrate-responsive element-binding protein
UniProt Gene Name	MLXIPL
UniProt Synonym Gene Names	BHLHD14; MIO; WBSCR14
UniProt Entry Name	WBS14_HUMAN
NCBI Protein Information	Williams-Beuren syndrome chromosomal region 14 protein; Mlx interactor; OTTHUMP00000160457; OTTHUMP00000160458; OTTHUMP00000211546; OTTHUMP00000211547; OTTHUMP00000225492; OTTHUMP00000225493; MLX-interacting protein-like; class D basic helix-loop-helix protein 14; Williams Beuren syndrome chromosome region 14; carbohydrate response element binding protein; carbohydrate-responsive element-binding protein; WS basic-helix-loop-helix leucine zipper protein; Williams-Beuren syndrome chromosome region 14 protein 1; Williams-Beuren syndrome chromosome region 14 protein 2
NCBI Summary for MLXIPL	This gene encodes a basic helix-loop-helix leucine zipper transcription factor of the Myc/Max/Mad superfamily. This protein forms a heterodimeric complex and binds and activates, in a glucose-dependent manner, carbohydrate response element (ChoRE) motifs in the promoters of triglyceride synthesis genes. The gene is deleted in Williams-Beuren syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at chromosome 7q11.23. [provided by RefSeq]

UniProt Comments for MLXIPL	ChREBP: Transcriptional repressor. Binds to the canonical and non-canonical E box sequences 5'-CACGTG-3'. Binds DNA as a heterodimer with TCFL4/MLX. Expressed in liver, heart, kidney, cerebellum and intestinal tissues. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; cytosol; nucleus Molecular Function: protein homodimerization activity; DNA binding; protein heterodimerization activity; transcription factor binding; transcription factor activity Biological Process: positive regulation of fatty acid biosynthetic process; anatomical structure morphogenesis; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; negative regulation of peptidyl-serine phosphorylation; positive regulation of cellular metabolic process; positive regulation of lipid biosynthetic process; negative regulation of transcription from RNA polymerase II promoter; glucose homeostasis; glucose mediated signaling; regulation of transcription from RNA polymerase II promoter; regulation of fatty acid biosynthetic process; regulation of transcription, DNA-dependent; fatty acid homeostasis; positive regulation of cell proliferation; positive regulation of glycolysis; energy reserve metabolic process; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent Disease: Williams-beuren Syndrome
Research Articles on MLXIPL	**1.** ChREBP is a critical and direct mediator of glucose repression of PPARalpha gene expression in pancreatic beta-cells
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