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Rabbit Anti-WBSCR14 antibody

SL3516R

Product Name:	WBSCR14
Chinese Name:	糖类应答元件Binding proteinChREBP抗体
Alias:	ChREBP; bHLHd14; Carbohydrate responsive element binding protein; MIO; MLX interacting protein like; Mlx interactor; MONDOB; WBSCR 14; WBSCR14; MLXIPL;Williams Beuren syndrome chromosome region 14; Williams Beuren syndrome chromosome region 14 protein; WS basic helix loop helix leucine zipper protein; WS bHLH; MLXPL_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	93kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human WBSCR14/ChREBP:81-180/852
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	ChREBP (Carbohydrate responsive element binding protein) is a transcription factor playing a critical role in the nutrient and hormonal regulation of genes encoding

enzymes of glucose metabolism and lipogenesis pathways. It contains several domains including a nuclear localization signal (NLS) near the N-terminus, polyproline domains, a basic helix-loop-helix leucine zipper (b/HLH/Zip) and a leucine zipper like (zip-like) domain. ChREBP is ubiquitously detected in various tissues, with highest expression in liver, kidney and white and brown adipose tissue. Under basal conditions ChREBP is localized in the cytosol, translocating into the nucleus upon high glucose stimulation following its dephosphorylation of phospho-serine 196.

Function:
Transcriptional repressor. Binds to the canonical and non-canonical E box sequences 5'-CACGTG-3' (By similarity).

Subunit:
Binds DNA as a heterodimer with TCFL4/MLX.

Subcellular Location:
Nucleus.

Tissue Specificity:
Expressed in liver, heart, kidney, cerebellum and intestinal tissues.

Post-translational modifications:
Phosphorylation at Ser-556 by AMPK inactivates the DNA-binding activity (By similarity).

DISEASE:
Note=WBSCR14 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Haploinsufficiency of WBSCR14 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in the disease.

Similarity:
Contains 1 basic helix-loop-helix (bHLH) domain.

SWISS:
Q9NP71

Gene ID:
51085

Database links:

Entrez Gene: 51085Human

Omim: 605678Human

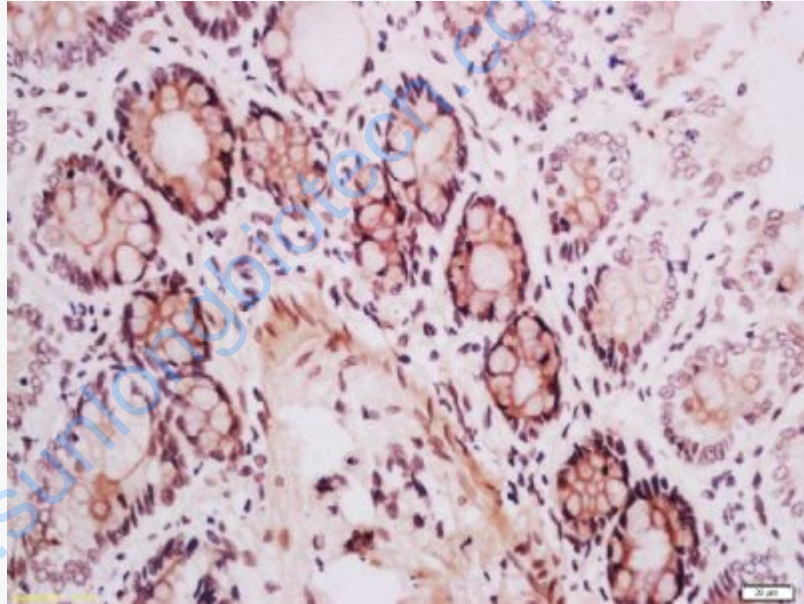|	
	SwissProt: Q9NP71 Human Unigene: 647055 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. ChREBP（又称碳水化合物反应元件Binding protein）是葡萄糖信号途径中的一个新的转录因子,在哺乳动物体内可结合到糖酵解和脂肪合成酶相关基因启动子区的糖类应答元件(ChRE)上, 在他们的共同作用下，可调节糖酵解和脂肪合成酶相关基因的表达.
Picture:	 Tissue/cell: rat rectum tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-WBSCR14 Polyclonal Antibody, Unconjugated(SL3516R) 1:200, overnight at 4℃, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining