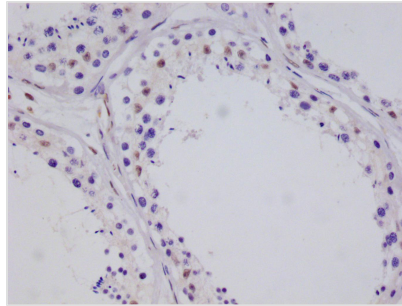




CRTC3 Recombinant Monoclonal Antibody

Product Code	CSB-RA955619A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q6UUV7
Immunogen	A synthesized peptide derived from human CRTC3
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. Also coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR). {ECO:0000269 PubMed:14506290, ECO:0000269 PubMed:15454081, ECO:0000269 PubMed:15466468, ECO:0000269 PubMed:16817901, ECO:0000269 PubMed:16980408, ECO:0000269 PubMed:17210223, ECO:0000269 PubMed:17644518}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Microbiology
Gene Names	CRTC3
Clone No.	10G3
Image	



IHC image of CSB-RA955619A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

Description

The production of the CRTC3 recombinant monoclonal antibody involves genetic engineering techniques such as gene cloning and expression. The immunogen used to generate the CRTC3 monoclonal antibody is a synthesized peptide derived from the human CRTC3 protein. After purification by affinity chromatography, the CRTC3 recombinant monoclonal antibody is of high quality and purity. It exhibits specific binding affinity to the CRTC3 protein and has been validated for use in human samples. The CRTC3 recombinant monoclonal antibody has undergone testing in IHC application to confirm its quality and specificity.

The CRTC3 protein mainly acts as a transcriptional coactivator that regulates gene expression in response to various extracellular signals. CRTC3 is involved in the regulation of glucose and lipid metabolism, insulin sensitivity, and inflammation. It is also involved in the regulation of circadian rhythms and memory consolidation. CRTC3 works by binding to CREB to activate the transcription of target genes involved in these processes.