

KD-Validated Anti-CRTC2 Rabbit Monoclonal Antibody

Rabbit monoclonal Antibody

Catalog # AGI2213

Product Information

Application	WB, FC
Primary Accession	Q53ET0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB250
Calculated MW	73302
Gene Name	CRTC2
Aliases	CRTC2; CREB Regulated Transcription Coactivator 2; TORC2; CREB-Regulated Transcription Coactivator 2; TORC-2; Transducer Of Regulated CAMP Response Element-Binding Protein (CREB) 2; Transducer Of Regulated CAMP Response Element-Binding Protein 2; Transducer Of CREB Protein 2
Immunogen	A synthesized peptide derived from human TORC2

Additional Information

Gene ID	200186
Other Names	CREB-regulated transcription coactivator 2, Transducer of regulated cAMP response element-binding protein 2, TORC-2, Transducer of CREB protein 2, CRTC2, TORC2

Protein Information

Name	CRTC2
Synonyms	TORC2
Function	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 gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. Regulates the expression of specific 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).
Cellular Location	Cytoplasm. Nucleus. Note=Translocated from the nucleus to the cytoplasm on interaction of the phosphorylated form with 14-3-3 protein (PubMed:15454081). In response to cAMP levels and glucagon, relocated to

the nucleus (PubMed:15454081)

Tissue Location

Most abundantly expressed in the thymus. Present in both B and T-lymphocytes. Highly expressed in HEK293T cells and in insulinomas. High levels also in spleen, ovary, muscle and lung, with highest levels in muscle. Lower levels found in brain, colon, heart, kidney, prostate, small intestine and stomach. Weak expression in liver and pancreas.

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