

Mouse Monoclonal Antibody to CRTC2

Catalogue Number	sAP-0472
Target Molecule	<p>Name: CRTC2</p> <p>Aliases: TORC2; TORC-2; CRTC2</p> <p>MW: 80kDa</p> <p>Entrez Gene ID: 200186</p>
Description	Glucose homeostasis is regulated by hormones and cellular energy status. Elevations of blood glucose during feeding stimulate insulin release from pancreatic β -cells through a glucose sensing pathway. Feeding also stimulates release of gut hormones such as glucagon-like peptide-1 (GLP-1), which further induces insulin release, inhibits glucagon release and promotes β -cell viability. CREB-dependent transcription likely plays a role in both glucose sensing and GLP-1 signaling. The protein Torc2 (transducer of regulated CREB activity 2) functions as a CREB co-activator and is implicated in mediating the effects of these two pathways. In quiescent cells, Torc2 is phosphorylated at Ser171 and becomes sequestered in the cytoplasm via an interaction with 14-3-3 proteins. Glucose and gut hormones lead to the dephosphorylation of
Immunogen	Purified recombinant fragment of human CRTC2 expressed in E. Coli.
Recitative Species	Human; Monkey
Clone	MM5B10;
Size and Concentration	100 μ g/1mg/ml
Supplied as	Lyophilized Powder from 100 μ l of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100 μ l sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Mol Syst Biol. 2007;3:89. ; 2. Nature. 2007 Sep 20;449(7160):366-9. ; 3. J Biol Chem. 2009 Mar 20;284(12):8033-41.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**