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Product Information



ChREBP Blocking Peptide

Item No. 10006790

Carbohydrate response element-binding protein (ChREBP) is a transcription factor that plays a critical role in the nutrient and hormonal regulation of gene encoding enzymes of glucose metabolism and lipogenesis pathways. It contains several domains including a nuclear localization signal (NSL) near the N-terminal, polyproline domains, a basic helix-loop-helix leucine zipper (b/HLH/Zip) and a leucine-zipper-like (Zip-like) domain.¹ ChREBP is ubiquitously detected in various tissues, with the highest expression found in liver, kidney, white and brown adipose tissue.² Under basal conditions ChREBP is localized in the cytosol. In response to high glucose stimulation the protein is translocated into the nucleus following its dephosphorylation of phospho-Ser¹⁹⁶.¹

Murine ChREBP is 864 amino acids in length with an estimated molecular weight of about 95 kDa. Cayman's ChREBP polyclonal antibody detects a specific band at 100 kDa in tissues and cells such as liver, white fat, and HepG2 cells.

Laboratory Procedures

This vial contains 200 µg peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The ChREBP blocking peptide (human ChREBP amino acids 715-733) can be used in conjunction with Cayman's ChREBP Polyclonal Antibody (Item No. 10006789) to block protein-antibody complex formation during immunochemical analysis of ChREBP.

Store this peptide solution at -20°C. It should be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the ChREBP Polyclonal Antibody (Item No. 10006789) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 µl of antibody and 20 µl of peptide.*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

References

1. Uyeda, K., Yamashita, H., and Kawaguchi, T. Carbohydrate responsive element-binding protein (ChREBP): A key regulator of glucose metabolism and fat storage. *Biochem. Pharmacol.* **63**, 2075-2080 (2002).
2. Iizuka, K., Bruick, R.K., Liang, G., *et al.* Deficiency of carbohydrate response element-binding protein (ChREBP) reduces lipogenesis as well as glycolysis. *Proc. Natl. Acad. Sci. USA* **101**(19), 7281-7286 (2004).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10006790

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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