abcam

Product datasheet

Anti-TORC2 antibody ab89179

2 图像

概述

产品名称	Anti-TORC2抗体
描述	**小鼠单克隆抗体to TORC2**
宿主	Mouse
经测试应用	**适用于:** WB, ELISA
种属反应性	**与反应:** Human
免疫原	Recombinant fragment: QDPHTFNHQN LTHCSRHGSG PNIILTGDSS PGFSKEIAAA LAGVPGFEVS AAGLELGLGL EDELRMEPLG LEGLNMLSDP CALLPDPAVE ESFRSDRLQ, corresponding to amino acids 595-693 of human Torc2 (NP_859066) with a proprietary tag. Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	HeLa cell lysate; the immunogen

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None Constituents: 1X PBS, pH 7.2
纯度	Protein A purified
克隆	单克隆
同种型	IgG1
轻链类型	kappa

应用

Our Abpromise guarantee covers the use of **ab89179** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 73 kDa.

应用	Ab评论	说明
ELISA		Use at an assay dependent dilution.

靶标

功能

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).

组织特异性

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.

序列相似性

Belongs to the TORC family.

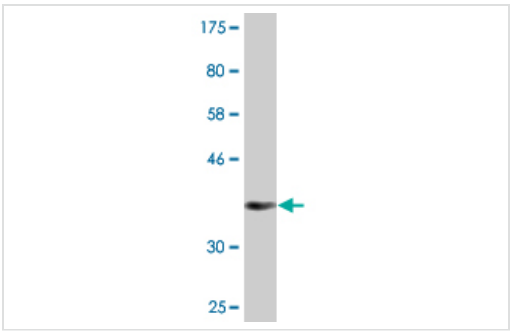
翻译后修饰

Phosphorylation/dephosphorylation states of Ser-171 are required for regulating transduction of CREB activity. TORCs are inactive when phosphorylated, and active when dephosphorylated at this site. This primary site of phosphorylation, is regulated by cAMP and calcium levels and is dependent on the phosphorylation of SIKs by LKB1. Both insulin and AMPK increase this phosphorylation, of TORC2 while glucagon suppresses it.

细胞定位

Cytoplasm. Nucleus. Translocated from the nucleus to the cytoplasm on interaction of the phosphorylated form with 14-3-3 protein. In response to cAMP levels and glucagon, relocated to the nucleus.

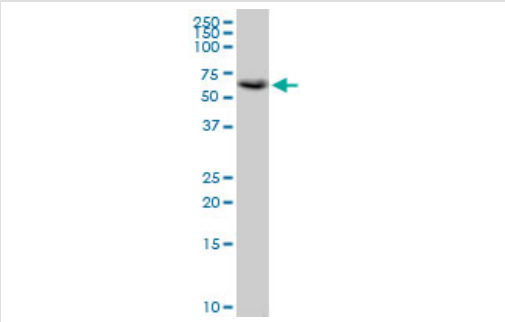
图片



Western blot - Anti-TORC2 antibody (ab89179)

Anti-TORC2 antibody (ab89179) at 5 µg/ml + tagged, recombinant human Torc2 protein fragment (the immunogen) at 0.2 µg/ml

Predicted band size: 73 kDa
Observed band size: 37 kDa



Western blot - Anti-TORC2 antibody (ab89179)

Anti-TORC2 antibody (ab89179) at 5 µg/ml +
HeLa cell lysate at 50 µg

Predicted band size: 73 kDa
Observed band size: ~65 kDa

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