


Anti-c-Myc (phospho T58) antibody ab28842

★★★★★ [3 Abreviews](#) [26 References](#) [3 图像](#)

概述

产品名称	Anti-c-Myc (phospho T58)抗体
描述	兔多克隆抗体到 c-Myc (phospho T58)
宿主	Rabbit
经测试应用	适用于: IHC-P, ICC/IF, WB
种属反应性	与反应: Human 预测可用于: Mouse 
免疫原	Synthetic peptide within Human c-Myc aa 1-100 (phospho T58). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Database link: P01106
阳性对照	Ovarian cancer cell lysate, breast carcinoma tissue.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
纯度	Without Mg ²⁺ and Ca ²⁺ Immunogen affinity purified

纯化说明	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab28842于以下的经测试应用

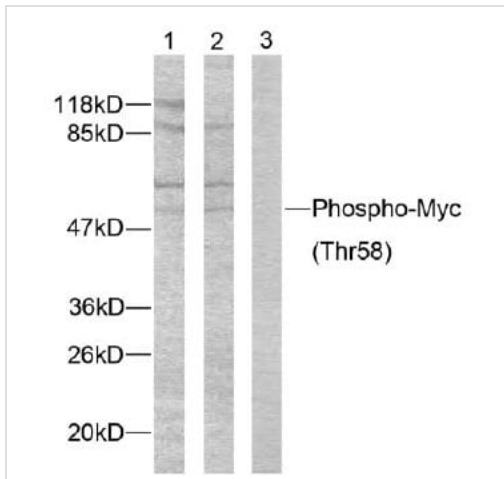
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 µg/ml.
WB	★★★★★ (3)	1/500 - 1/1000. Predicted molecular weight: 49 kDa.

靶标

功能	Participates in the regulation of gene transcription. Binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3'. Seems to activate the transcription of growth-related genes.
疾病相关	Note=Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors. Note=A chromosomal aberration involving MYC may be a cause of a form of B-cell chronic lymphocytic leukemia. Translocation t(8;12)(q24;q22) with BTG1. Defects in MYC are a cause of Burkitt lymphoma (BL) [MIM:113970]. A form of undifferentiated malignant lymphoma commonly manifested as a large osteolytic lesion in the jaw or as an abdominal mass. Note=Chromosomal aberrations involving MYC are usually found in Burkitt lymphoma. Translocations t(8;14), t(8;22) or t(2;8) which juxtapose MYC to one of the heavy or light chain immunoglobulin gene loci.
序列相似性	Contains 1 basic helix-loop-helix (bHLH) domain.
翻译后修饰	Phosphorylated by PRKDC. Phosphorylation at Thr-58 and Ser-62 by GSK3 is required for ubiquitination and degradation by the proteasome. Ubiquitinated by the SCF(FBXW7) complex when phosphorylated at Thr-58 and Ser-62, leading to its degradation by the proteasome. In the nucleoplasm, ubiquitination is counteracted by USP28, which interacts with isoform 1 of FBXW7 (FBW7alpha), leading to its deubiquitination and preventing degradation. In the nucleolus, however, ubiquitination is not counteracted by USP28, due to the lack of interaction between isoform 4 of FBXW7 (FBW7gamma) and USP28, explaining the selective MYC degradation in the nucleolus. Also polyubiquitinated by the DCX(TRUSS) complex.
细胞定位	Nucleus > nucleoplasm. Nucleus > nucleolus.
形式	c-Myc is also expressed in the cytoplasm.

图片



Western blot - Anti-c-Myc (phospho T58) antibody (ab28842)

Lane 1 : Anti-c-Myc (phospho T58) antibody (ab28842) at 1/500 dilution

Lane 2 : Anti-c-Myc (phospho T58) antibody (ab28842) at 1/500 dilution (preincubated with synthesized non-phosphopeptide)

Lane 3 : Anti-c-Myc (phospho T58) antibody (ab28842) at 1/500 dilution (preincubated with synthesized phosphopeptide)

Lanes 1 & 3 : human ovarian cancer cell lysate

Lane 2 : human ovarian cancer cell lysate

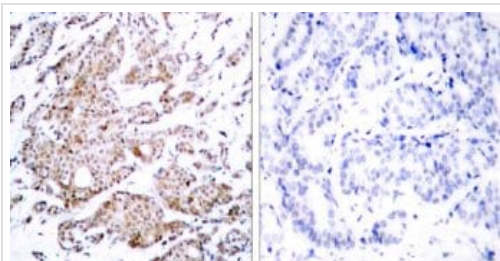
Predicted band size: 49 kDa

Observed band size: 51 kDa

Additional bands at: 120 kDa, 55 kDa, 86 kDa. We are unsure as to the identity of these extra bands.

Immunocytochemistry/ Immunofluorescence - Anti-c-Myc (phospho T58) antibody (ab28842)

ICC/IF image of **ab28864** stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab28864**, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-c-Myc (phospho T58) antibody (ab28842)

Immunohistochemical analysis of paraffin-embedded breast carcinoma. Left: Using Myc (Phospho-Thr58) Antibody; Right: The same antibody preincubated with synthesized phosphopeptide.

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