abcam

Product datasheet

Anti-c-Myc (phospho S62) antibody [33A12E10] ab78318

26 References 5 图像

概述

产品名称	Anti-c-Myc (phospho S62)抗体[33A12E10]
描述	小鼠单克隆抗体[33A12E10] to c-Myc (phospho S62)
宿主	Mouse
经测试应用	**适用于:** Flow Cyt (Intra), IHC-P, ICC/IF, WB
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat
免疫原	Synthetic peptide corresponding to Human c-Myc (phospho S62). Database link: **P01106**
阳性对照	c-Myc siRNA transfected crude cell extracts of AGS (gastric adenocarcinoma) cells. HL60 cells: Flow Cyt (Intra).
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 6 Constituents: 50% Glycerol (glycerin, glycerine), PBS
纯度	Ion Exchange Chromatography
克隆	单克隆
克隆编号	33A12E10
同种型	IgG2b
轻链类型	kappa

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab78318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
Flow Cyt (Intra)		Use 1µg for 10^6 cells. **ab170192** - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.5 - 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 60 kDa (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.

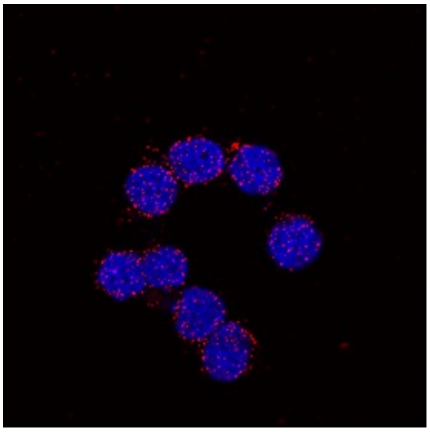
序列相似性 Contains 1 basic helix-loop-helix (bHLH) domain.

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.

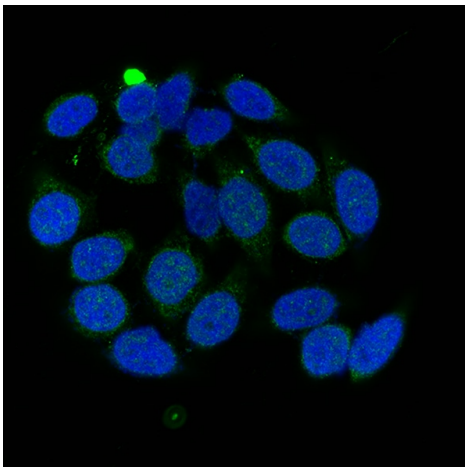
形式 c-Myc is also expressed in the cytoplasm.

图片



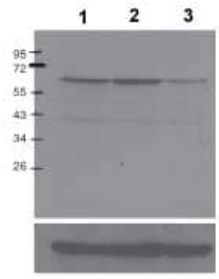
Immunocytochemistry/ Immunofluorescence - Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318)

Proximity Ligation Analysis with anti-cMyc pS62 and CIP2A antibodies, association of cMyc pS62 with CIP2A (red) in nuclei (DAPI, blue) of HeLa cells by ICC/IF.



Immunocytochemistry/ Immunofluorescence - Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318)

Ab78318 staining (green) and DAPH staining (blue) of c-Myc (phospho S62) in HeLa cells by ICC/IF.



Western blot - Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318)

All lanes : Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318) at 1 µg/ml

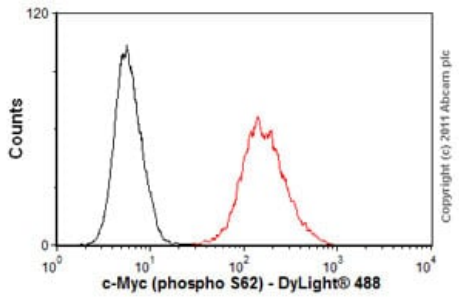
Lane 1 : Crude cell extracts of AGS (gastric adenocarcinoma) cells with Scr (scrambled) siRNA introduced into the cells as a negative control
Lane 2 : Crude cell extracts of AGS (gastric adenocarcinoma) cells transfected with a negative control siRNA
Lane 3 : Crude cell extracts of AGS (gastric adenocarcinoma) cells transfected with siRNA for c-Myc

Predicted band size: 49 kDa
Observed band size: 60 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318)

IHC image of ab78318 staining in human normal cervical carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab78318, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Flow Cytometry (Intracellular) - Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318)

Overlay histogram showing HL60 cells stained with ab78318 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab78318, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was a goat **anti-mouse DyLight® 488** (IgG; H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (**ab91366**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HL60 cells fixed in 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors