abcam

Product datasheet

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

**26 References** 画像数 5

## 製品の概要

| | |
|---|---|
| **製品名** | Anti-c-Myc (phospho S62) antibody [33A12E10] |
| **製品の詳細** | Mouse monoclonal [33A12E10] to c-Myc (phospho S62) |
| **由来種** | Mouse |
| **アプリケーション** | **適用あり:** Flow Cyt (Intra), IHC-P, ICC/IF, WB |
| **種交差性** | **交差種:** Human<br>**交差が予測される動物種:** Mouse, Rat |
| **免疫原** | Synthetic peptide corresponding to Human c-Myc (phospho S62).<br>Database link: **P01106** |
| **ポジティブ・コントロール** | c-Myc siRNA transfected crude cell extracts of AGS (gastric adenocarcinoma) cells. HL60 cells: Flow Cyt (Intra). |
| **特記事項** | 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.<br>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 |

## 製品の特性

| | |
|---|---|
| **製品の状態** | Liquid |
| **保存方法** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. |
| **バッファー** | pH: 6<br>Constituents: 50% Glycerol (glycerin, glycerine), PBS |
| **精製度** | Ion Exchange Chromatography |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | 33A12E10 |
| **アイソタイプ** | IgG2b |
| **軽鎖の種類** | kappa |

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab78318の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| **Flow Cyt (Intra)** | | Use 1µg for $10^6$ cells.<br>**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). |

## ターゲット情報

**機能**
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.

**関連疾患**
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.

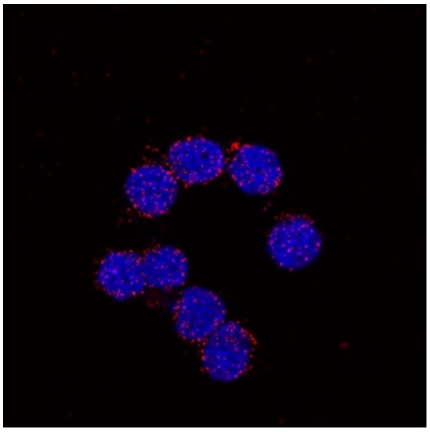
**配列類似性**
Contains 1 basic helix-loop-helix (bHLH) domain.

**翻訳後修飾**
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.

**細胞内局在**
Nucleus > nucleoplasm. Nucleus > nucleolus.

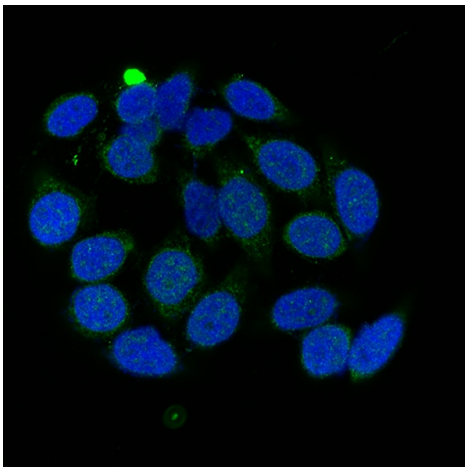
**製品の状態**
c-Myc is also expressed in the cytoplasm.

## 画像



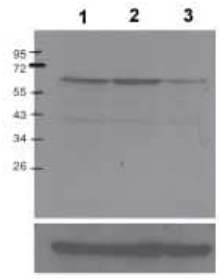
Immunocytochemistry/ Immunofluorescence - Anti-c-Myc (phospho S62) antibody [33A12E10] (ab78318)

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

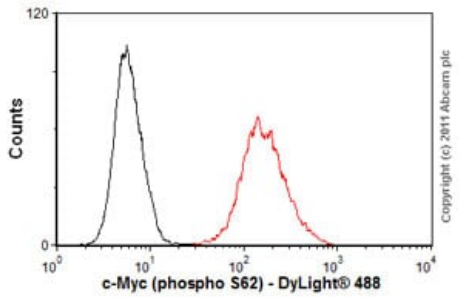
**Lane 1 :** Crude cell extracts of AGS (gastric adenocarcinoma) cells with Scr (scrambled) siRNA introduced into the cells as a negative control
**Lane 2 :** Crude cell extracts of AGS (gastric adenocarcinoma) cells transfected with a negative control siRNA
**Lane 3 :** Crude cell extracts of AGS (gastric 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/1x$10^6$ 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/1x$10^6$ 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.

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