

### Anti-MCL1 antibody [Y37] ab32087

敲除验证
重组
RabMAb

★★★★★
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#### 概述

产品名称	Anti-MCL1抗体[Y37]
描述	兔单克隆抗体[Y37] to MCL1
宿主	Rabbit
特异性	This antibody recognises MCL1. The antibody does not cross-react with other Bcl-2 family members.
经测试应用	<b>适用于:</b> Flow Cyt (Intra), ICC/IF, WB, IHC-P
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human MCL1 aa 100-200. The exact sequence is proprietary. Database link: <a href="#">Q07820</a> (Peptide available as <a href="#">ab199979</a> )
阳性对照	WB: Human lung, lung cancer and liver lysates; HEK293T, A431, Ramos, H:-60, HeLa, MCF7 and HepG2 whole cell lysate ( <a href="#">ab7900</a> ). IHC-P: Human colon adenocarcinoma tissue. ICC/IF: HCT 116, MCF7 and H1299 cells. Flow Cyt (intra): Ramos and A431 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>

纯度	Protein A purified
克隆	单克隆
克隆编号	Y37
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab32087于以下的经测试应用

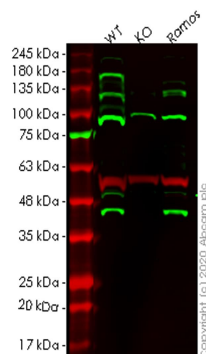
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/250. For unpurified use 1 ug for 106 cells. (For lot-specific stock concentration, please contact Abcam). <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (2)	1/100 - 1/500.
WB	★★★★★ (10)	1/1000 - 1/5000. Predicted molecular weight: 37 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <b>IHC antigen retrieval protocols</b> .

靶标

功能	Involved in the regulation of apoptosis versus cell survival, and in the maintenance of viability but not of proliferation. Mediates its effects by interactions with a number of other regulators of apoptosis. Isoform 1 inhibits apoptosis. Isoform 2 promotes apoptosis.
序列相似性	Belongs to the Bcl-2 family.
翻译后修饰	Cleaved by CASP3 during apoptosis. In intact cells cleavage occurs preferentially after Asp-127, yielding a pro-apoptotic 28 kDa C-terminal fragment. Rapidly degraded in the absence of phosphorylation on Thr-163 in the PEST region. Phosphorylated on Thr-163. Treatment with taxol or okadaic acid induces phosphorylation on additional sites.
细胞定位	Membrane. Cytoplasm. Mitochondrion. Nucleus > nucleoplasm. Cytoplasmic, associated with mitochondria.

图片



Western blot - Anti-MCL1 antibody [Y37] (ab32087)

**All lanes :** Anti-MCL1 antibody [Y37] (ab32087) at 1/1000 dilution

**Lane 1 :** Wild-type HEK293T cell lysate

**Lane 2 :** MCL1 knockout HEK293T cell lysate

**Lane 3 :** Ramos cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW)

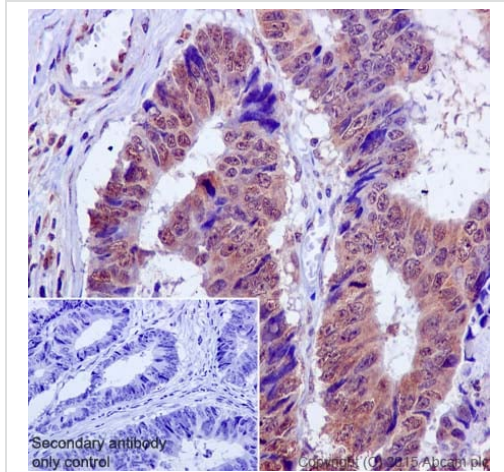
preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 37 kDa

**Observed band size:** 37 kDa

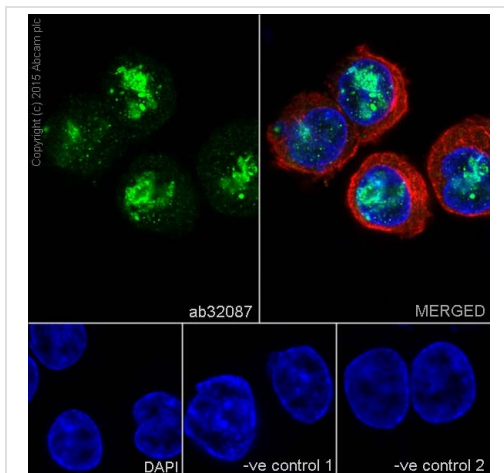
**Lanes 1-3:** Merged signal (red and green). Green - ab32087 observed at 37 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab32087 Anti-MCL1 antibody [Y37] was shown to specifically react with MCL1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266838](#) (knockout cell lysate [ab256986](#)) was used. Wild-type and MCL1 knockout samples were subjected to SDS-PAGE. ab32087 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCL1 antibody [Y37] (ab32087)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon adenocarcinoma tissue labelling MCL1 with purified ab32087 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

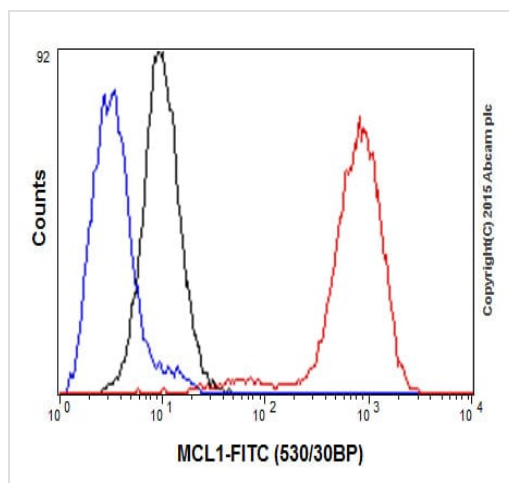


Immunocytochemistry/ Immunofluorescence - Anti-MCL1 antibody [Y37] (ab32087)

Immunocytochemistry/Immunofluorescence analysis of HCT 116 (human colorectal carcinoma cell line) cells labelling MCL1 with purified ab32087 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

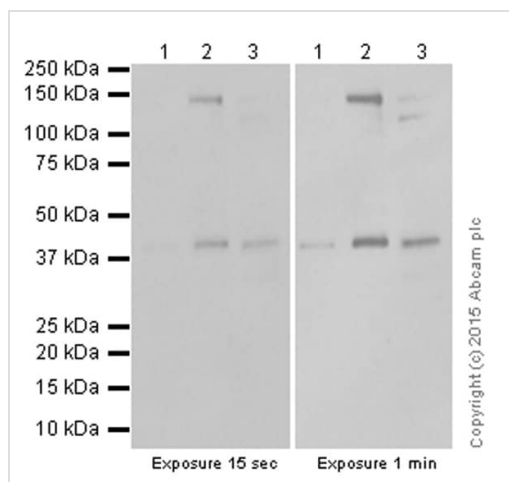
Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Flow Cytometry (Intracellular) - Anti-MCL1 antibody [Y37] (ab32087)

Intracellular Flow Cytometry analysis of Ramos (human Burkitt's lymphoma cell line) cells labelling MCL1 with purified ab32087 at 1/250 (red). Cells were fixed with 4% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Western blot - Anti-MCL1 antibody [Y37] (ab32087)

**All lanes** : Anti-MCL1 antibody [Y37] (ab32087) at 1/1000 dilution

**Lane 1** : Human lung tissue with NFDN/TBST

**Lane 2** : Human lung cancer tissue with NFDN/TBST

**Lane 3** : Human liver tissue with NFDN/TBST

Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % per lane.

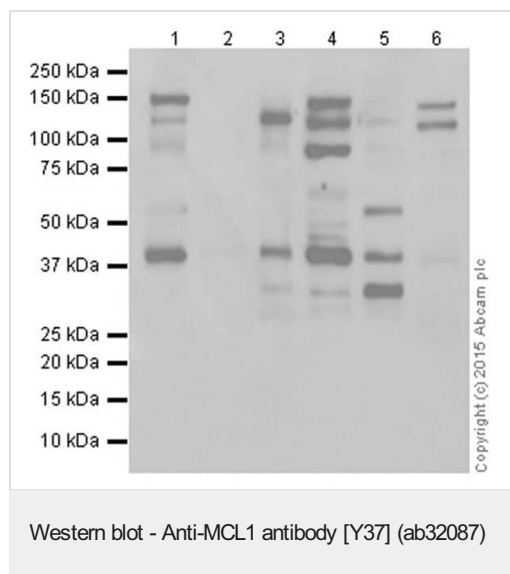
### Secondary

**All lanes** : Goat Anti-Rabbit IgG (H+L), Peroxidase conjugated. at 1/1000 dilution

**Predicted band size:** 37 kDa

Exposure time for samples 1-3: 15 seconds; exposure time for samples 4-6: 1 minute.

Additional bands: We are unsure as to the identity of these extra bands.



**All lanes :** Anti-MCL1 antibody [Y37] (ab32087) at 1/1000 dilution

**Lane 1 :** Ramos (human Burkitt's lymphoma cell line) cell lysate with NFDm/TBST

**Lane 2 :** HL-60 (human promyelocytic leukemia cell line) cell lysate with NFDm/TBST

**Lane 3 :** A431 (human epidermoid carcinoma cell line) cell lysate with NFDm/TBST

**Lane 4 :** HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate with NFDm/TBST

**Lane 5 :** MCF7 (human breast adenocarcinoma cell line) cell lysate with NFDm/TBST

**Lane 6 :** HepG2 (human liver hepatocellular carcinoma cell line) cell lysate with NFDm/TBST

Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % per lane.

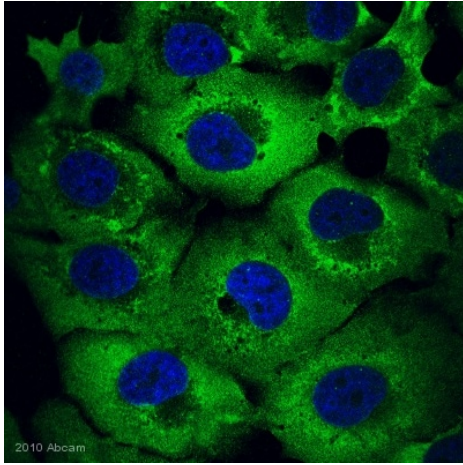
### Secondary

**All lanes :** Goat anti-rabbit IgG (H+L), peroxidase conjugated. at 1/1000 dilution

**Predicted band size:** 37 kDa

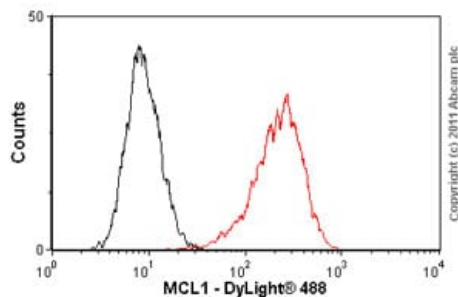
**Exposure time:** 15 seconds

Additional bands: We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-MCL1 antibody [Y37] (ab32087)

This image is courtesy of an anonymous Abreview.



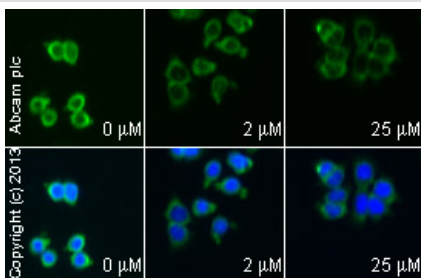
Flow Cytometry (Intracellular) - Anti-MCL1 antibody [Y37] (ab32087)

Immunocytochemistry/Immunofluorescence analysis of H1299 cells labelling MCL1 with unpurified ab32087. Cells were PFA-fixed and permeabilized in 0.5% Triton X-100 prior to blocking in 3% Serum for 1 hour at 24°C. The primary antibody was diluted 1/100 and incubated with the sample for 1 hour at 24°C. The secondary antibody was an Alexa Fluor® 488-conjugated Goat anti-Rabbit polyclonal, diluted 1/2000. DAPI (blue) was used as the nuclear counterstain.

Intracellular Flow Cytometry analysis of A431 (human epidermoid carcinoma cell line) cells labelling MCL1 with unpurified ab32087 (red line). Cells were fixed with 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 (ab32087, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C.

Black - Isotype control, rabbit monoclonal IgG.

Acquisition of >5,000 events was performed. This antibody gave a decreased signal in A431 cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween used under the same conditions.







Immunocytochemistry/ Immunofluorescence - Anti-MCL1 antibody [Y37] (ab32087)

Immunocytochemistry/Immunofluorescence analysis of HCT 116 (human colorectal carcinoma cell line) cells treated with wogonin (**ab142471**) labelling MCL1 with unpurified ab32087. Decrease of MCL1 expression correlates with increased concentration of wogonin, as described in literature. Cells were incubated at 37°C for 2h in media containing different concentrations of **ab142471** (wogonin) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with ab32087 (1/100) dilution was performed overnight at 4°C in PBS containing 1% BSA

and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-MCL1 antibody [Y37] (ab32087)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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