

Anti-Cyclin D3/CCND3 antibody [1/Cyclin D3] - BSA and Azide free ab289556

重组

7 图像

概述

产品名称	Anti-Cyclin D3/CCND3抗体[1/Cyclin D3] - BSA and Azide free
描述	小鼠单克隆抗体[1/Cyclin D3] to Cyclin D3/CCND3 - BSA and Azide free
宿主	Mouse
经测试应用	适用于: WB, IP, IHC-P 不适用于: ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: K562, Jurkat, HeLa, Daudi, HEL, PC-12, A20, C6 and C2C12 whole cell lysate. Human and mouse lymphoma lysates. IHC-P: Mouse and rat spleen and stomach tissue. IP: C2C12 cell lysate.
常规说明	<p>ab289556 is the carrier-free version of ab289546</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply

- Animal-free production
For more information [see here](#).

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: 100% PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	1/Cyclin D3
同种型	IgG2b

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab289556 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
WB		Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明 Is unsuitable for ICC/IF.

靶标

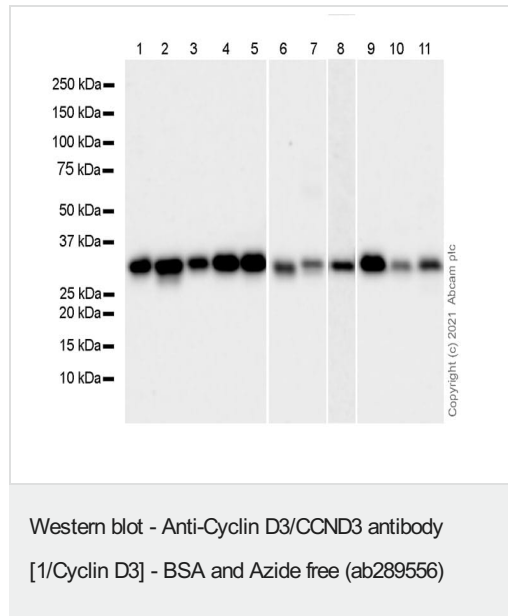
功能 Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

序列相似性 Belongs to the cyclin family. Cyclin D subfamily.
Contains 1 cyclin N-terminal domain.

细胞定位

Nucleus. Cytoplasm. Membrane. Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members.

图片



All lanes : Anti-Cyclin D3/CCND3 antibody [1/Cyclin D3] ([ab289546](#)) at 1/1000 dilution

Lane 1 : K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate

Lane 2 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

Lane 3 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate

Lane 4 : Daudi (human Burkitt's lymphoma lymphoblast), whole cell lysate

Lane 5 : HEL (erythroleukemia erythroblast), whole cell lysate

Lane 6 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lane 7 : A20 (mouse reticulum sarcoma B lymphocyte), whole cell lysate

Lane 8 : C6 (rat glial tumor glial cell), whole cell lysate

Lane 9 : C2C12 (mouse myoblast), whole cell lysate

Lane 10 : Human lymphoma lysate

Lane 11 : Mouse lymphoma lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

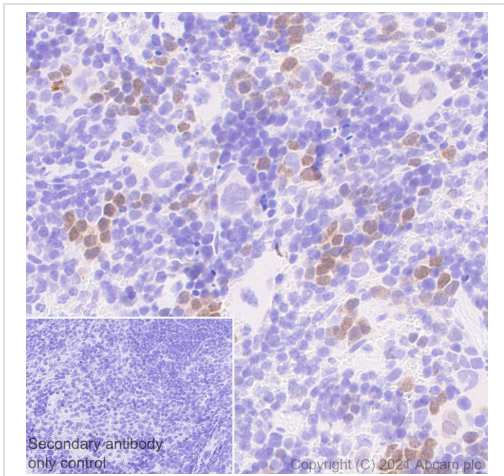
Predicted band size: 33 kDa

Observed band size: 33 kDa

This data was developed using [ab289546](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer: 5% NFDm/TBST.

Exposure time: Lanes 1-7/9-11: 37 seconds ; Lane 8: 3 minutes.



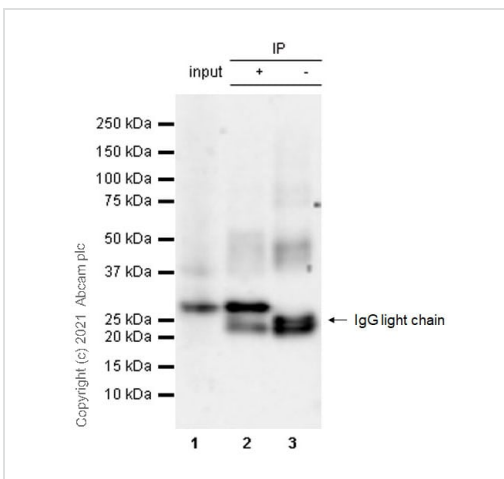
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclin D3/CCND3 antibody [1/Cyclin D3] - BSA and Azide free (ab289556)

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Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling Cyclin D3/CCND3 with [ab289546](#) at 1/5000 (0.181 µg/ml) dilution followed by a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection). Nuclear staining in mouse spleen. The section was incubated with [ab289546](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Sample was counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (BOND™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunoprecipitation - Anti-Cyclin D3/CCND3 antibody [1/Cyclin D3] - BSA and Azide free (ab289556)

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Cyclin D3/CCND3 was immunoprecipitated from 0.35 mg C2C12 (mouse myoblast) whole cell lysate 10 µg with [ab289546](#) at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using [ab289546](#) at 1/1000 dilution. Mouse IgG for IP (HRP) ([ab131368](#)) was used at 1/1000 dilution.

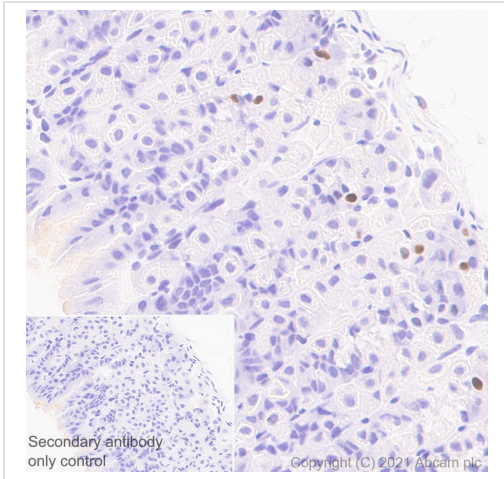
Lane 1: C2C12 whole cell lysate 10 µg

Lane 2: [ab289546](#) IP in C2C12 whole cell lysate

Lane 3: Mouse IgG2b instead of [ab289546](#) in C2C12 whole cell lysate

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 32 seconds.



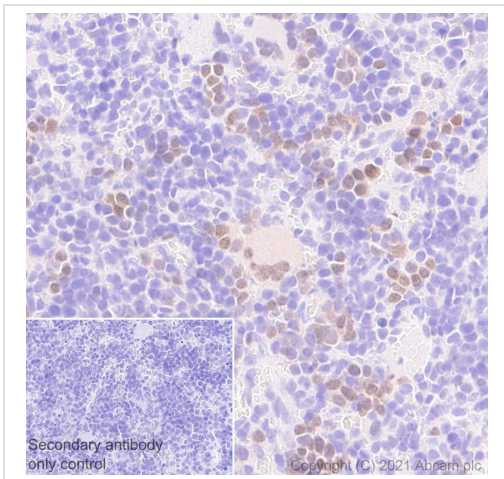
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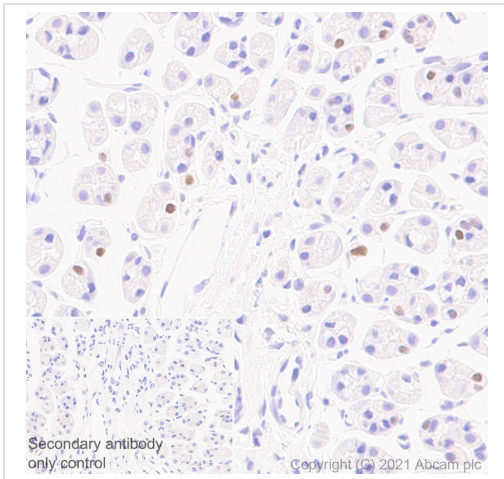
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Why choose a recombinant antibody?

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

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

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