abcam

Product datasheet

Anti-UBE2I / UBC9 antibody ab33044

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概述

产品名称	Anti-UBE2I / UBC9抗体
描述	兔多克隆抗体to UBE2I / UBC9
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC/IF, IP
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Chicken, Xenopus laevis, Zebrafish
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Recombinant Human UBE2I / UBC9 protein (**ab127405**) can be used as a positive control in WB. This antibody gave a positive signal in the following whole cell lysates: HeLa, Jurkat, A431, NIH3T3, MEF1, PC12, This antibody gave a positive signal in the following tissue lysate:Testis (Mouse) Tissue Lysate - normal tissue
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab33044于以下的经测试应用**

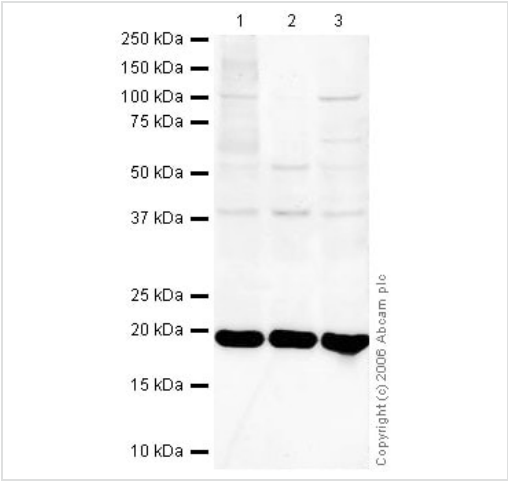
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).
IHC-P		Use a concentration of 5 µg/ml.
ICC/IF		Use a concentration of 1 µg/ml.
IP		Use at an assay dependent concentration.

靶标

功能	Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3 and SUMO4 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2 or CBX4. Necessary for sumoylation of FOXL2 and KAT5. Essential for nuclear architecture and chromosome segregation.
组织特异性	Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.
通路	Protein modification; protein sumoylation.
序列相似性	Belongs to the ubiquitin-conjugating enzyme family.
细胞定位	Nucleus. Cytoplasm. Mainly nuclear. In spermatocytes, localizes in synaptonemal complexes. Recruited by BCL11A into the nuclear body.

图片



Western blot - Anti-UBE2I / UBC9 antibody (ab33044)

All lanes : Anti-UBE2I / UBC9 antibody (ab33044) at 1 µg/ml

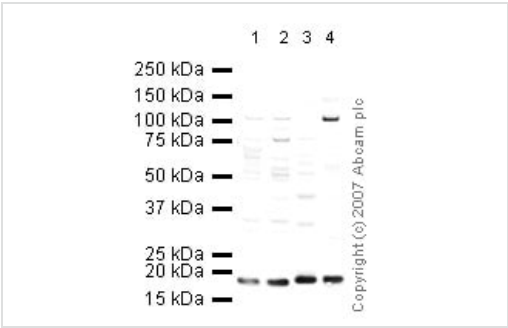
Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Jurkat whole cell lysate (**ab7899**)
Lane 3 : A-431 whole cell lysate (**ab7909**)

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : IR Dye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/15000 dilution

Performed under reducing conditions.

Predicted band size: 18 kDa
Observed band size: 18 kDa



Western blot - Anti-UBE2I / UBC9 antibody (ab33044)

All lanes : Anti-UBE2I / UBC9 antibody (ab33044) at 1 µg/ml

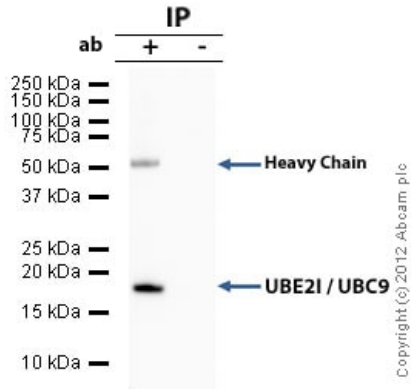
Lane 1 : NIH/3T3 whole cell lysate (**ab7179**)
Lane 2 : MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 3 : Testis (Mouse) Tissue Lysate - normal tissue
Lane 4 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

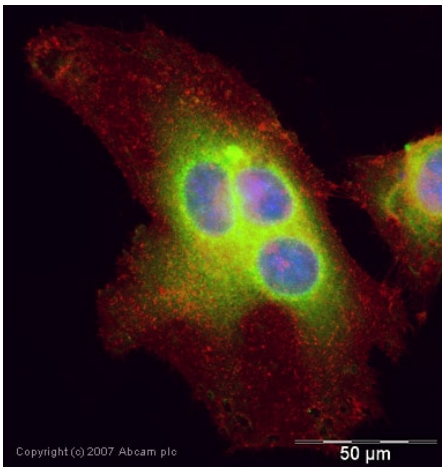
Performed under reducing conditions.

Predicted band size: 18 kDa
Observed band size: 18 kDa
Additional bands at: 100 kDa. We are unsure as to the identity of these extra bands.



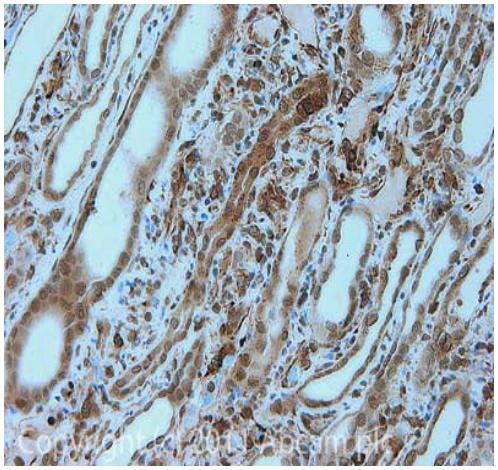
Immunoprecipitation - Anti-UBE2I / UBC9 antibody (ab33044)

UBE2I / UBC9 was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Rabbit polyclonal to UBE2I / UBC9 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Hela whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab33044.
Secondary: Clean blot (HRP conjugate) at 1/1000 dilution.
Band: 18kDa: UBE2I / UBC9.



Immunocytochemistry/ Immunofluorescence - Anti-UBE2I / UBC9 antibody (ab33044)

ICC/IF image of ab33044 stained human HeLa cells. The cells were PFA fixed (10 min), permabilised in TBS-T (20 min) and incubated with the antibody (ab33044, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. 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). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UBE2I / UBC9 antibody (ab33044)

IHC image of ab33044 staining UBE2I / UBC9 in Human kidney 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 ab33044, 5µg/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.

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