

Anti-MCM7/PRL antibody [EP1974Y] ab52489

重组 RabMAb

19 References [7 图像](#)

概述

产品名称	Anti-MCM7/PRL抗体[EP1974Y]
描述	兔单克隆抗体[EP1974Y] to MCM7/PRL
宿主	Rabbit
特异性	This antibody reacts with hCDC47
经测试应用	适用于: Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
种属反应性	与反应: Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, A431 and C6 cell lysates; Rat spleen tissue lysate. IHC-P: Human tonsil and rat stomach tissue. IP: Jurkat cell lysate. Flow Cyt (intra): MCF7 cells. ICC/IF: MCF7 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"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1974Y

同种型

IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab52489 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)		1/30. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50.
WB		1/1000. Detects a band of approximately 81 kDa (predicted molecular weight: 81 kDa).
IP		1/20.
IHC-P		1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

靶标

功能

Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity. Required for S-phase checkpoint activation upon UV-induced damage.

序列相似性

Belongs to the MCM family.
Contains 1 MCM domain.

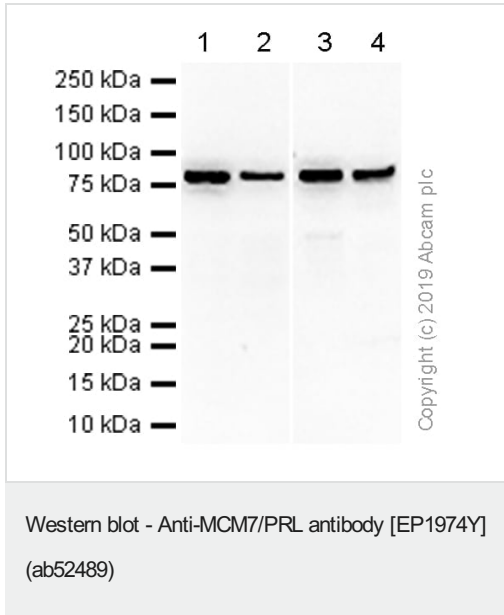
翻译后修饰

Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位

Nucleus.

图片



Lane 1 : Anti-MCM7/PRL antibody [EP1974Y] (ab52489) at 1/1000 dilution (Purified)

Lanes 2-4 : Anti-MCM7/PRL antibody [EP1974Y] (ab52489) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : A431 (Human epidermoid carcinoma epithelial cell) whole cell lysates

Lane 3 : C6 (Rat glial tumor glial cell) whole cell lysates

Lane 4 : Rat spleen lysates

Lysates/proteins at 20 µg per lane.

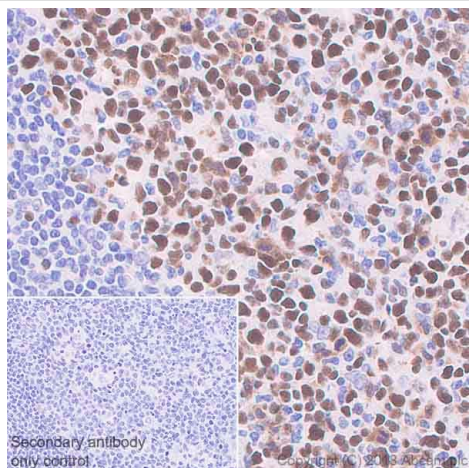
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 81 kDa

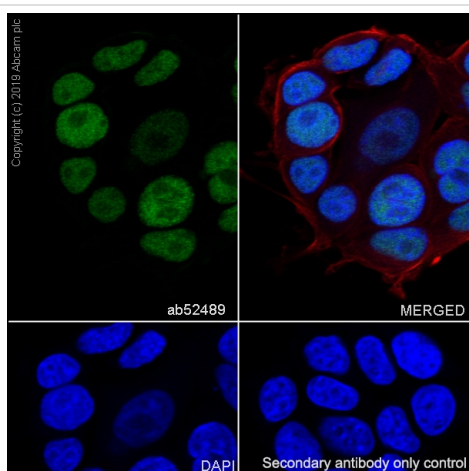
Observed band size: 81 kDa

Blocking/Diluting buffer: 5% NFDm/TBST



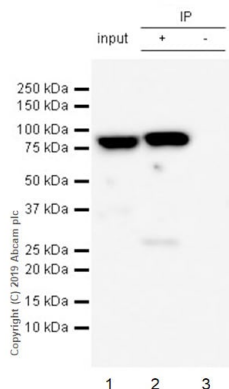
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM7/PRL antibody [EP1974Y] (ab52489)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling MCM7/PRL with purified ab52489 at 1/50 dilution (5.4 µg/mL). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



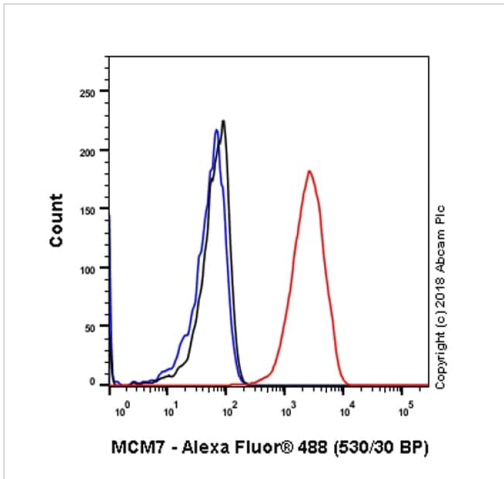
Immunocytochemistry/ Immunofluorescence - Anti-MCM7/PRL antibody [EP1974Y] (ab52489)

Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling MCM7/PRL with Purified ab52489 at 1/50 (5.4 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



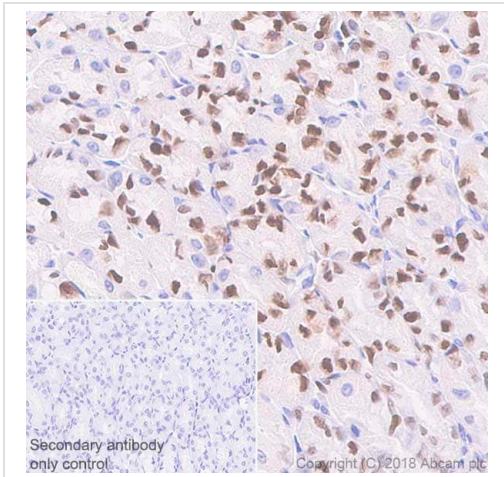
Immunoprecipitation - Anti-MCM7/PRL antibody [EP1974Y] (ab52489)

Purified ab52489 at 1/20 dilution (2ug) immunoprecipitating MCM7/PRL in Jurkat whole cell lysate.
 Lane 1 (input): Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate (10µg)
 Lane 2 (+): ab52489 + Jurkat whole cell lysate.
 Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab52489 in Jurkat whole cell lysate.
 VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000) was used for Western blotting.
 Blocking Buffer and concentration: 5% NFDm/TBST.
 Diluting buffer and concentration: 5% NFDm/TBST.
 Observed band size: 81 kDa



Flow Cytometry (Intracellular) - Anti-MCM7/PRL antibody [EP1974Y] (ab52489)





Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling MCM7/PRL with Purified ab52489 at 1/30 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MCM7/PRL antibody [EP1974Y] (ab52489)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomach tissue sections labeling MCM7/PRL with purified ab52489 at 1/50 dilution (5.4 µg/mL). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Why choose a recombinant antibody?

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

Anti-MCM7/PRL antibody [EP1974Y] (ab52489)

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