abcam

Product datasheet

Anti-Mre11 antibody ab30725

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概述

产品名称	Anti-Mre11抗体
描述	兔多克隆抗体to Mre11
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 650 to the C-terminus of Human Mre11. 参阅Abcam的专有抗源政策 (Peptide available as ab33123.)
阳性对照	HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate, Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate and A431 (Human epithelial carcinoma cell line) Whole Cell Lysate.

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	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS. pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab30725** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF		

应用	Ab评论	说明
WB	★★★★☆	
IHC-P		

应用说明

IHC-P: Use at a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF: Use at a concentration of 1 µg/ml.
WB: Use at a concentration of 1 µg/ml. Detects a band of approximately 81 kDa (predicted molecular weight: 81 kDa).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

靶标

功能

Component of the MRN complex, which plays a central role in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity and meiosis. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11A. RAD50 may be required to bind DNA ends and hold them in close proximity. This could facilitate searches for short or long regions of sequence homology in the recombining DNA templates, and may also stimulate the activity of DNA ligases and/or restrict the nuclease activity of MRE11A to prevent nucleolytic degradation past a given point. The complex may also be required for DNA damage signaling via activation of the ATM kinase. In telomeres the MRN complex may modulate t-loop formation.

疾病相关

Defects in MRE11A are a cause of ataxia telangiectasia-like disorder (ATLD) [MIM:604391]. ATLD is a disease with the same clinical feature than ataxia-telangiectasia but with a somewhat milder clinical course.

序列相似性

Belongs to the MRE11/RAD32 family.

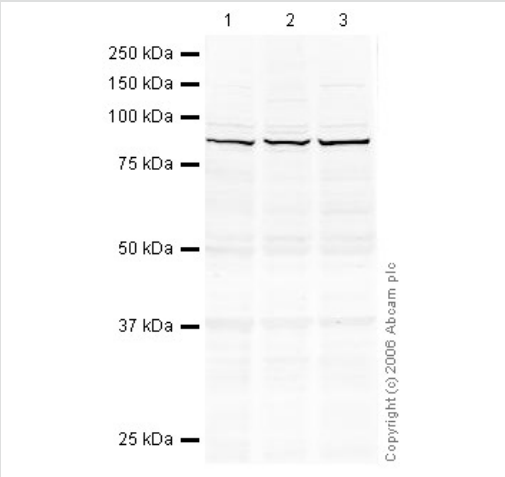
翻译后修饰

Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位

Nucleus. Localizes to discrete nuclear foci after treatment with genotoxic agents.

图片



Western blot - Anti-Mre11 antibody (ab30725)

All lanes : Anti-Mre11 antibody (ab30725) at 1 µg/ml

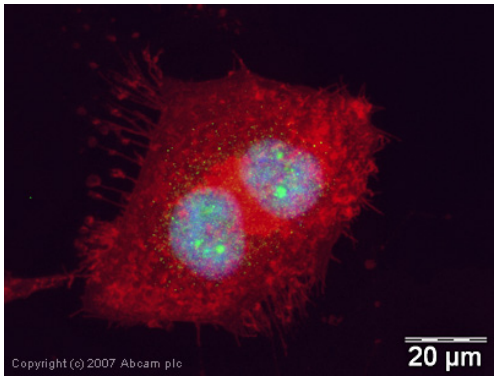
Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Jurkat whole cell lysate (ab7899)
Lane 3 : A431 whole cell lysate (ab7909)

Lysates/proteins at 20 µg per lane.

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

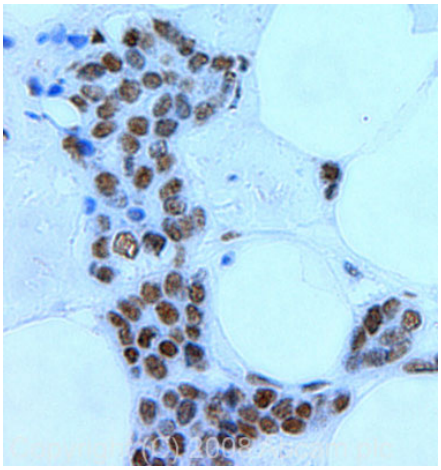
Performed under reducing conditions.

Predicted band size: 81 kDa
Observed band size: 81 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Mre11 antibody (ab30725)

ICC/IF image of ab30725 stained human HeLa cells. The cells were PFA fixed (10 min), permabilised in TBS-T (20 min) and incubated with the antibody (ab30725, 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-Mre11 antibody (ab30725)

IHC image of Mre11 staining in human breast carcinoma FFPE section, performed on a 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 ab30725, 5µg/ml, for 8 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.

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