

Anti-Rad50 antibody [EPR3466(2)] ab124682

重组 RabMAb

★★★★★ [5 Abreviews](#) [7 References](#) [5 图像](#)

概述

产品名称	Anti-Rad50抗体[EPR3466(2)]
描述	兔单克隆抗体[EPR3466(2)] to Rad50
宿主	Rabbit
经测试应用	适用于: WB 不适用于: Flow Cyt (Intra) or ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	K562, MOLT4, Jurkat and MCF7 cell lysates.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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. Stable for 12 months at -20°C.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3466(2)
同种型	IgG

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用ab124682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	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 150 kDa (predicted molecular weight: 154 kDa).

应用说明

Is unsuitable for Flow Cyt (Intra) or ICC/IF.

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.

组织特异性

Expressed at very low level in most tissues, except in testis where it is expressed at higher level. Expressed in fibroblasts.

疾病相关

Defects in RAD50 are the cause of Nijmegen breakage syndrome-like disorder (NBSLD) [MIM:613078]; also called NBS-like disorder or RAD50 deficiency. NBSLD is a disorder similar to Nijmegen breakage syndrome and characterized by chromosomal instability, radiation sensitivity, microcephaly, growth retardation, short stature and bird-like face. Immunodeficiency is absent.

序列相似性

Belongs to the SMC family. RAD50 subfamily.
Contains 1 zinc-hook domain.

结构域

The zinc-hook, which separates the large intramolecular coiled coil regions, contains 2 Cys residues that coordinate one molecule of zinc with the help of the 2 Cys residues of the zinc-hook of another RAD50 molecule, thereby forming a V-shaped homodimer. The two heads of the homodimer, which constitute the ATP-binding domain, interact with the MRE11A homodimer.

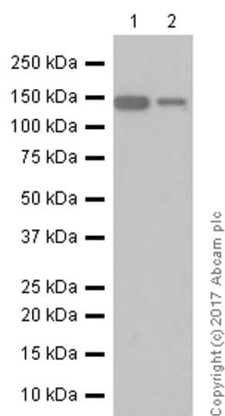
翻译后修饰

Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位

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

图片



Western blot - Anti-Rad50 antibody [EPR3466(2)]
(ab124682)

All lanes : Anti-Rad50 antibody [EPR3466(2)] (ab124682) at
1/5000 dilution (purified)

Lane 1 : K-562 (Human chronic myelogenous leukemia
lymphoblast) whole cell lysates

Lane 2 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast)
whole cell lysates

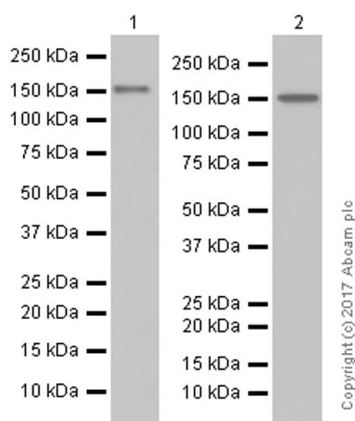
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form
of IgG at 1/2000 dilution

Predicted band size: 154 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-Rad50 antibody [EPR3466(2)]
(ab124682)

All lanes : Anti-Rad50 antibody [EPR3466(2)] (ab124682) at
1/1000 dilution (purified)

Lane 1 : Human fetal brain lysates

Lane 2 : Mouse thymus lysates

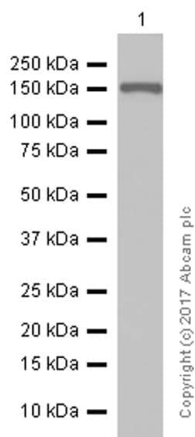
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form
of IgG at 1/2000 dilution

Predicted band size: 154 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-Rad50 antibody [EPR3466(2)]
(ab124682)

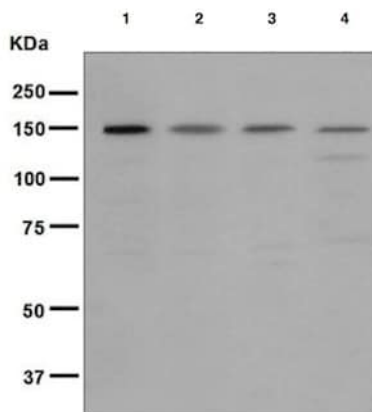
Anti-Rad50 antibody [EPR3466(2)] (ab124682) at 1/1000 dilution
(purified) + Rat testis lysates at 20 µg

Secondary

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

Predicted band size: 154 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-Rad50 antibody [EPR3466(2)]
(ab124682)

All lanes : Anti-Rad50 antibody [EPR3466(2)] (ab124682) at
1/1000 dilution (unpurified)

Lane 1 : K562 cell lysate

Lane 2 : MOLT4 cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 154 kDa

Observed band size: 150 kDa

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-Rad50 antibody [EPR3466(2)] (ab124682)

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

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