


Anti-Rad17 (phospho S645) antibody ab3620

4 References **3 图像**

概述

产品名称	Anti-Rad17 (phospho S645)抗体
描述	兔多克隆抗体to Rad17 (phospho S645)
宿主	Rabbit
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Mouse, Human 预测可用于: Chimpanzee, Rhesus monkey, Gorilla, African green monkey, Orangutan 
免疫原	Synthetic peptide corresponding to Human Rad17 (phospho S645). Phosphorylated synthetic peptide, which represented a portion of human Rad17 (GeneID 5884) around serine 645 according to the numbering given in entry NP_002864.1.
阳性对照	IHC: human colon carcinoma tissue; mouse renal cell carcinoma tissue; WB: HeLa and HEK293T treated with Etoposide
常规说明	<p>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.</p> <p>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</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
纯度	Immunogen affinity purified
纯化说明	Antibodies that were not phospho-specific were removed by solid phase absorption. Antibodies specific for Rad 17pSer 645 were affinity purified using the phospho peptide immobilized on solid support.
克隆	多克隆

同种型

lgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab3620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
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000 - 1/5000. Detects a band of approximately 85-88 kDa (predicted molecular weight: 77 kDa).

靶标

功能

Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination.

组织特异性

Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level). Ubiquitous at low levels. Highly expressed in testis, where it is expressed within the germinal epithelium of the seminiferous tubuli. Weakly expressed in seminomas (testicular tumors).

序列相似性

Belongs to the rad17/RAD24 family.

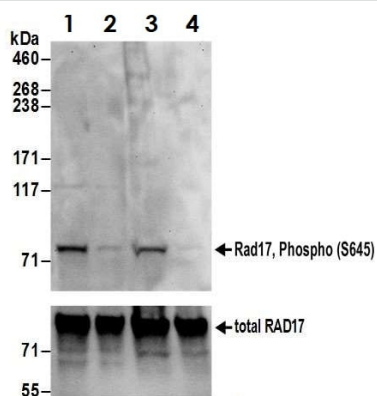
翻译后修饰

Phosphorylated. Phosphorylation on Ser-646 and Ser-656 is cell cycle-regulated, enhanced by genotoxic stress, and required for activation of checkpoint signaling. Phosphorylation is mediated by ATR upon UV or replication arrest, whereas it may be mediated both by ATR and ATM upon ionizing radiation. Phosphorylation on both sites is required for interaction with RAD1 but dispensable for interaction with RFC3 or RFC4.

细胞定位

Nucleus. Phosphorylated form redistributes to discrete nuclear foci upon DNA damage.

图片



Western blot - Anti-Rad17 (phospho S645) antibody (ab3620)

All lanes : Anti-Rad17 (phospho S645) antibody (ab3620) at 0.4 $\mu\text{g/ml}$

Lane 1 : HeLa whole cell lysate treated with Etoposide

Lane 2 : HeLa whole cell lysate mock-treated

Lane 3 : HEK293T whole cell lysate treated with Etoposide

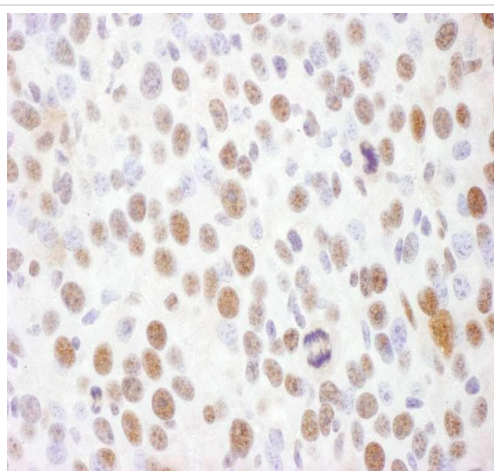
Lane 4 : HEK293T whole cell lysate mock-treated

Lysates/proteins at 50 μg per lane.

Predicted band size: 77 kDa

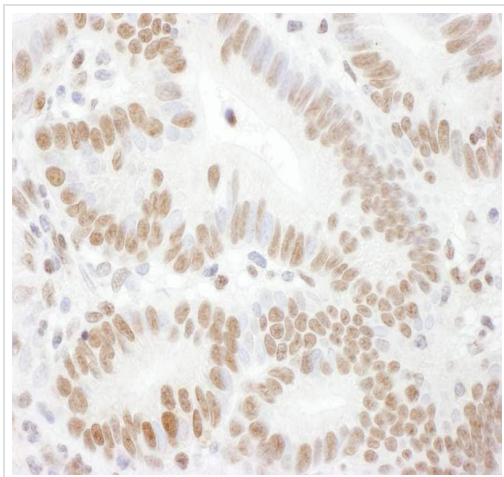
Exposure time: 30 seconds

Lower panel: membrane was reblotted with goat anti-Rad17 antibody to examine total Rad17.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad17 (phospho S645) antibody (ab3620)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse renal cell carcinoma tissue labelling Rad17 with ab3620 at 1/1000 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Rad17 (phospho S645) antibody (ab3620)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon carcinoma tissue labelling Rad17 with ab3620 at 1/1000 dilution. Heat mediated antigen retrieval performed with citrate buffer pH 6 before commencing with IHC staining protocol.

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