

### Anti-RAD18 antibody - BSA and Azide free ab188283

4 Images

#### Overview

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<b>Product name</b>	Anti-RAD18 antibody - BSA and Azide free
<b>Description</b>	Rabbit polyclonal to RAD18
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment corresponding to Mouse RAD18 (C terminal). 100 carboxyl terminal amino acids of mouse Rad18 fused to a proprietary tag Database link: <a href="#">Q9QXK2</a>
<b>Positive control</b>	ES, NIH 3T3 cell lysates; ES cells; mouse testis.
<b>General notes</b>	<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&amp;As</p>

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 6 Constituents: 50% PBS, 50% Glycerol (glycerin, glycerine)
	Filter-sterilized
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab188283 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 56 kDa.
ICC/IF		1/300.
IHC-P		1/100 - 1/300.

## Target

### Function

E3 ubiquitin-protein ligase involved in postreplication repair of UV-damaged DNA. Postreplication repair functions in gap-filling of a daughter strand on replication of damaged DNA. Associates to the E2 ubiquitin conjugating enzyme UBE2B to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. Has ssDNA binding activity.

### Pathway

Protein modification; protein ubiquitination.

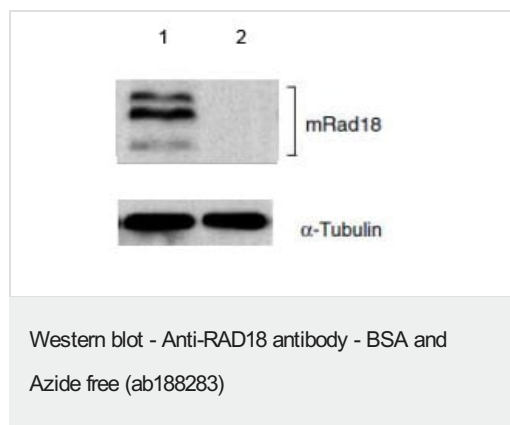
### Sequence similarities

Belongs to the RAD18 family.  
Contains 1 RING-type zinc finger.  
Contains 1 SAP domain.  
Contains 1 UBZ-type zinc finger.

### Cellular localization

Nucleus.

## Images

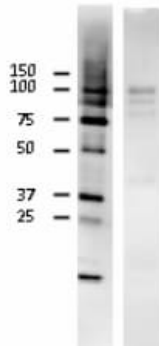


**All lanes :** Anti-RAD18 antibody - BSA and Azide free (ab188283) at 1/1000 dilution

**Lane 1 :** Lysate of wild type mouse ES cells

**Lane 2 :** Lysate of Rad18 double knock-out mouse ES cells

**Predicted band size:** 56 kDa

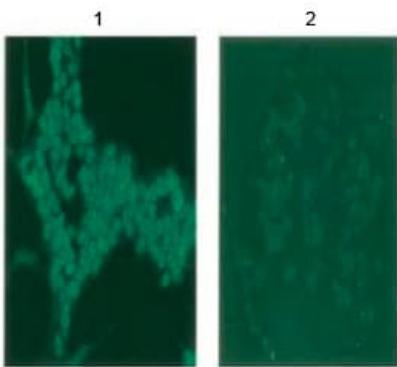


Western blot - Anti-RAD18 antibody - BSA and Azide free (ab188283)

Anti-RAD18 antibody - BSA and Azide free (ab188283) at 1/2000 dilution + NIH 3T3 cell extract at 23 µg

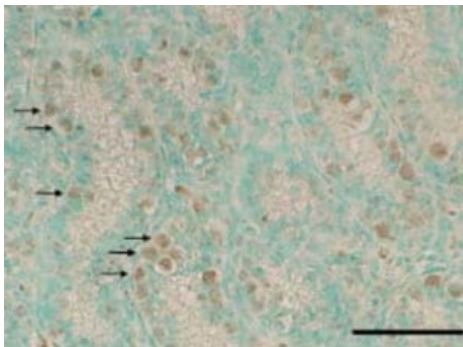
**Predicted band size:** 56 kDa

The two extra bands (75~90 kDa) may represent modified products (ubiquitination, phosphorylation).



Immunocytochemistry/ Immunofluorescence - Anti-RAD18 antibody - BSA and Azide free (ab188283)

Immunocytochemical analysis of wild-type (1) and RAD18 <sup>-/-</sup> (2) cells fixed in 3.7% paraformaldehyde and 80% methanol, labeling RAD18 with ab188283 at a 1/300 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAD18 antibody - BSA and Azide free (ab188283)

Immunohistochemical analysis of paraformaldehyde fixed mouse testis labeling RAD18 with ab188283 at 1/100 dilution. Peroxidase-conjugated anti-rabbit IgG donkey antibody was used as the second antibody. Signals were enhanced with TSA plus biotin system and detected using DAB substrate. Arrows indicate undifferentiated spermatogonia.

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

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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