



Product datasheet

Anti-RAD18 antibody ab188235

[8 References](#) [5 Images](#)

Overview

Product name	Anti-RAD18 antibody
Description	Rabbit polyclonal to RAD18
Host species	Rabbit
Tested applications	Suitable for: WB, IP, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human RAD18 aa 250 to the C-terminus. Database link: Q9NS91
	 Run BLAST with  Run BLAST with
Positive control	Irradiated U2OS cells and lysate, NIH-3T3 cell lysate
General notes	<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>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.05% Sodium azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab188235 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		1/2000. Predicted molecular weight: 56 kDa.
IP		Use at an assay dependent concentration.
ICC/IF		1/2000. Fixation with 3% PFA 10 min, RT and afterwards permeabilization with methanol for 2 min.

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.

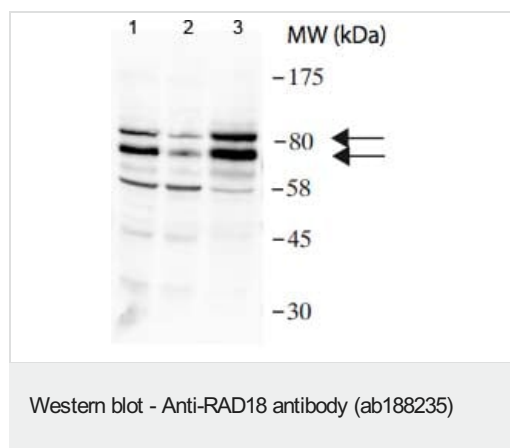
Sequence similarities

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 (ab188235) at 1/2000 dilution

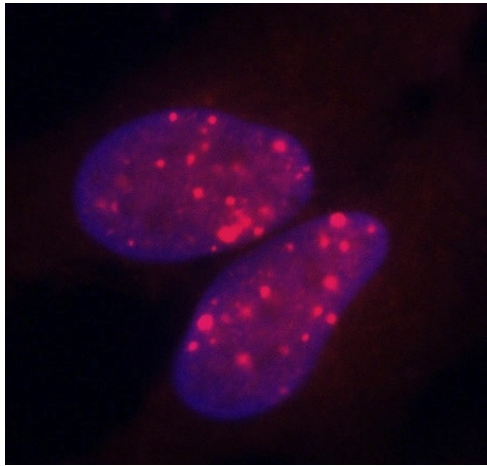
Lane 1 : Control U2OS cell lysate

Lane 2 : RAD18 si treated U2OS cell lysate

Lane 3 : NIH-3T3 cell lysate

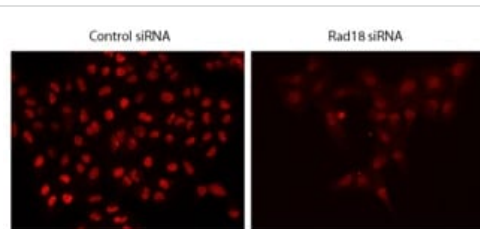
Lysates/proteins at 40 µg per lane.

Predicted band size: 56 kDa



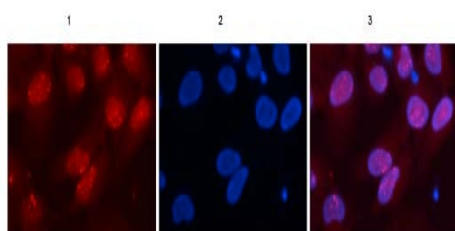
Immunocytochemistry/ Immunofluorescence - Anti-RAD18 antibody (ab188235)

Immunofluorescent analysis of U2OS cells fixed in 3% PFA for 10 mins and permeabilised with methanol for 2 mins, then irradiated with 3Gy of IR for 1.5h labeling RAD18 with ab188235 at 1/600 dilution. Rad18 (red) ; DAPI (blue).



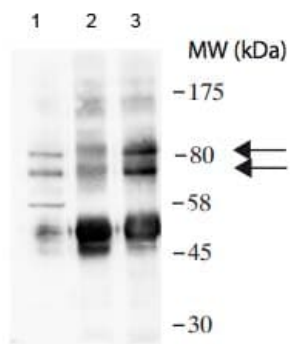
Immunocytochemistry/ Immunofluorescence - Anti-RAD18 antibody (ab188235)

Immunofluorescent analysis of RAD18 expression in U2OS control cells and RAD18 siRNA treated U2OS cells, using ab188235 at 1/2000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-RAD18 antibody (ab188235)

Immunofluorescent analysis U2OS cells fixed in 3% PFA 10 mins and permeabilised with methanol 2 mins irradiated with 3Gy IR for 1.5h labeling RAD18 with ab188235 (1), DNA (2) and merged (3)



Immunoprecipitation - Anti-RAD18 antibody
(ab188235)

Western blot analysis (using ab188235) of immunoprecipitation from U2OS cell lysates (lysed in 0.5% NP40)

Lane 1: Input

Lane 2: immunoprecipitate with control serum+protein A sepharose.

Lane 3: immunoprecipitate with ab188235+ protein A sepharose.

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