**Product datasheet**

**Anti-RAD18 antibody ab186835**

1 References 3 Images

### Overview

**Product name**  Anti-RAD18 antibody  
**Description**  Rabbit polyclonal to RAD18  
**Host species**  Rabbit  
**Tested applications**  Suitable for: ICC/IF, WB, IHC-P  
**Species reactivity**  Reacts with: Mouse, Rat, Human  
**Immunogen**  Recombinant full length protein corresponding to Human RAD18 aa 1-495. Database link: Q9NS91  
**Positive control**  Extracts from K562, MCF7, Jurkat, 293T and mouse liver

### 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**  pH: 7.3  
Preservative: 0.02% Sodium azide  
Constituents: 50% Glycerol, 49% PBS  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

### Applications

Our Abpromise guarantee covers the use of ab186835 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Notes</th>
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<td>ICC/IF</td>
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<td>Use at an assay dependent concentration.</td>
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### 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
Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using ab186835. Green: GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.
Immunocytochemistry/Immunofluorescence analysis of U2OS cells using ab186835. Blue DAPI for nuclear staining.

All lanes: Anti-RAD18 antibody (ab186835) at 1/500 dilution

Lane 1: Extracts from K562 cell line
Lane 2: Extracts from MCF7 cell line
Lane 3: Extracts from Jurkat cell line
Lane 4: Extracts from 293T cell line
Lane 5: Extracts from mouse liver

Predicted band size: 56 kDa

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