

Product datasheet

Anti-RING1 antibody ab76985

3 Images

Overview

<b>Product name</b>	Anti-RING1 antibody
<b>Description</b>	Mouse monoclonal to RING1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment: NKECPTCRKK LVSKRSLRPD PNFDALISKI YPSREEYEAH QDRVLIRLSR LHNQQALSSS IEEGLRMQAM HRAQRVRRPI PGSDQTTTMS, corresponding to amino acids 81-170 of human RING1 (NP_002922) with a 26 kDa tag <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	H9c2(2-1) cell lysate; RIN-m5F cell lysate; immunogen.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: PBS, pH 7.2
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab76985** 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		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 42 kDa.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.

## Target

### Function

Constitutes one of the E3 ubiquitin-protein ligases that mediate monoubiquitination of 'Lys-119' of histone H2A, thereby playing a central role in histone code and gene regulation. H2A 'Lys-119' ubiquitination gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. Essential component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex act via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility. Compared to RNF2/RING2, it does not have the main E3 ubiquitin ligase activity on histone H2A, and it may rather act as a modulator of RNF2/RING2 activity.

### Pathway

Protein modification; protein ubiquitination.

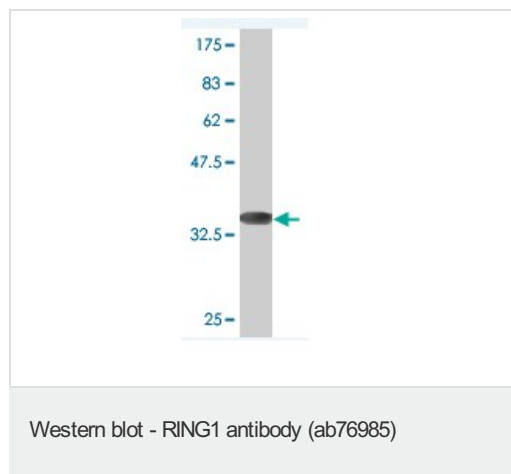
### Sequence similarities

Contains 1 RING-type zinc finger.

### Cellular localization

Nucleus speckle.

## Images



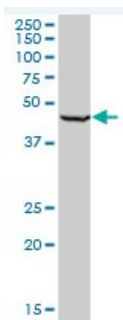
Anti-RING1 antibody (ab76985) at 5 µg/ml + immunogen at 0.2 µg

### Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/5000 dilution

**Predicted band size:** 42 kDa

**Observed band size:** 35 kDa



Western blot - RING1 antibody (ab76985)

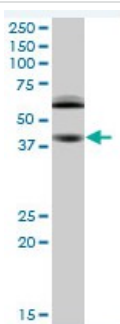
Anti-RING1 antibody (ab76985) at 5 µg/ml +  
H9c2(2-1) cell lysate at 25 µg

#### Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/2500 dilution

**Predicted band size:** 42 kDa

**Observed band size:** 42 kDa



Western blot - RING1 antibody (ab76985)

Anti-RING1 antibody (ab76985) at 5 µg/ml +  
RIN-m5F cell lysate at 25 µg

#### Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at  
1/2500 dilution

**Predicted band size:** 42 kDa

**Observed band size:** 42 kDa

**Additional bands at:** 60 kDa. We are unsure  
as to the identity of these extra bands.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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