

Product datasheet

Anti-RING1 antibody [8E8A2] ab181756

4 Images

Overview

Product name	Anti-RING1 antibody [8E8A2]
Description	Mouse monoclonal [8E8A2] to RING1
Host species	Mouse
Tested applications	Suitable for: ELISA, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Dog 
Immunogen	Recombinant fragment corresponding to Human RING1 aa 79-263. Expressed in <i>E. Coli</i> . Sequence: SGNKECPTCRKKLVSKRSLRPDPNFDALISKMPSREE YEAHQDRVLRL SRLHNQQALSSSIEEGLRMQAMHRAQRVRRPIPGSDQ TTMSGGEGEPGE GEGDGEDVSSDSAPDSAPGPAPKRPRGGGAGGSSV GTGGGGTGGVGGGAG SEDSGDRGGTLGGGTLGPPSPPGAPSPPEPGGEIE Database link: Q06587  Run BLAST with  Run BLAST with
Positive control	RING1 recombinant protein; RING1 (aa 79-263)-hlgGfC transfected HEK293 cell lysate; A431 and HeLa cells.

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 Constituent: 99% PBS Contains 0.5% protein stabilizer.
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.

Clonality	Monoclonal
Clone number	8E8A2
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab181756** in the following tested applications.

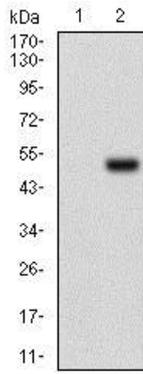
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/10000.
WB		1/500 - 1/2000. Predicted molecular weight: 42 kDa.
ICC/IF		1/200 - 1/1000.

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



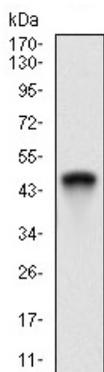
Western blot - Anti-RING1 antibody [8E8A2] (ab181756)

All lanes : Anti-RING1 antibody [8E8A2] (ab181756) at 1/500 dilution

Lane 1 : HEK293 cell lysate, non-transfected

Lane 2 : HEK293 cell lysate, transfected with RING1 (aa 79-263)-hlgGfc

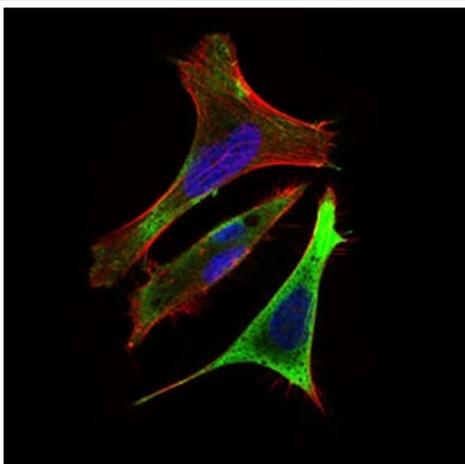
Predicted band size: 42 kDa



Western blot - Anti-RING1 antibody [8E8A2] (ab181756)

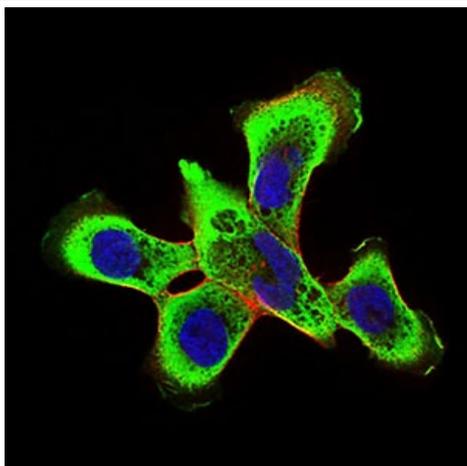
Anti-RING1 antibody [8E8A2] (ab181756) at 1/500 dilution + Human RING1 recombinant protein

Predicted band size: 42 kDa



Immunocytochemistry/ Immunofluorescence - Anti-RING1 antibody [8E8A2] (ab181756)

Immunofluorescent analysis of HeLa cells labeling RING1 with ab181756 at 1/200 dilution (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunofluorescent analysis of A431 cells labeling RING1 with ab181756 at 1/200 dilution (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Immunocytochemistry/ Immunofluorescence - Anti-RING1 antibody [8E8A2] (ab181756)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors