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Product datasheet

Anti-RNF169 antibody ab188237

1 References 1 Image

Overview

Product name	Anti-RNF169 antibody
Description	Rabbit polyclonal to RNF169
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant fragment corresponding to Human RNF169 aa 1-250. Sequence: MAAAGPSTRA SSAAAAAALS RRGRRGRCDE TAAAKTGAPG PASGPSLLVL SPPLLQPPLP PRPEESGCAG CLEPPGEAAA LPCGHSLCRG CAQRAADAAG PGCPRCRARG PGWARRRARD DGQADSEVLG ECARRSQPER CRPRRDGGAA AAGPRPEQEP RAAPAEPDFI FRAPIKLSKP GELREEYESL RKLREEKLQE EKPSEDQIHK LLPEDTETGK RKMDEQKKRD EPLVLKTNLE RCPARLSDSE Database link: Q8NCN4 Run BLAST with Run BLAST with
Positive control	RFN169 transfected U2OS, NIH-3T3, INS-1 cell lysates

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

Our Abpromise guarantee covers the use of **ab188237** 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: 77 kDa.

Target

Function

Probable E3 ubiquitin-protein ligase that acts as a negative regulator of double-strand breaks (DSBs) repair following DNA damage. Recruited to DSB repair sites by recognizing and binding ubiquitin catalyzed by RNF168 and competes with TP53BP1 and BRCA1 for association with RNF168-modified chromatin, thereby acting as a negative regulator of DSBs repair. E3 ubiquitin-protein ligase activity is not required for regulation of DSBs repair.

Pathway

Protein modification; protein ubiquitination.

Sequence similarities

Belongs to the RNF169 family.
Contains 1 RING-type zinc finger.

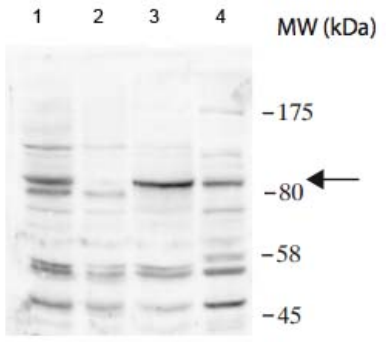
Domain

The MIU motif (motif interacting with ubiquitin) mediates the interaction with both 'Lys-48'- and 'Lys-63'-linked ubiquitin chains (PubMed:22733822 and PubMed:22492721). The UMI motif also mediates interaction with ubiquitin. The specificity for different types of ubiquitin is mediated by juxtaposition of ubiquitin-binding motifs (MIU and UMI motifs) with LR motifs (LRMs) (PubMed:22742833).

Cellular localization

Nucleus > nucleoplasm. Localizes to sites of double-strand breaks (DSBs) following DNA damage. Recruited to DSBs via recognition of RNF168-dependent ubiquitin products.

Images



Western blot - Anti-RNF169 antibody (ab188237)

All lanes : Anti-RNF169 antibody (ab188237) at 1/2000 dilution

Lane 1 : U2OS cell lysate (si RNA control)
Lane 2 : U2OS cell lysate (si RNA RNF169 transfected)
Lane 3 : NIH-3T3 cell lysate
Lane 4 : INS-1 cell lysate

Lysates/proteins at 40 µg per lane.

Predicted band size: 77 kDa

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