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RNF168 (C) Antibody, Rabbit Polyclonal

Cat#: R3275-2

Quantity: 100 ul

Predicted | Observed MW: 65 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q8IYW5

Background:

RING finger protein 168 (RNF168) is an E3 ubiquitin-protein ligase required for accumulation of repair proteins to sites of DNA damage. RNF168 acts with UBE2N/UBC13 to amplify the RNF8-dependent histone ubiquitination. RNF168 is recruited to sites of DNA damage at double-strand breaks (DSBs) by binding to ubiquitinated histone H2A and H2AX and amplifies the RNF8-dependent H2A ubiquitination, promoting the formation of 'Lys-63'-linked ubiquitin conjugates. This leads to concentrate ubiquitinated histones H2A and H2AX at DNA lesions to the threshold required for recruitment of TP53BP1 and BRCA1. RNF168 is also recruited at DNA interstrand cross-links (ICLs) sites and promotes accumulation of 'Lys-63'-linked ubiquitination of histones H2A and H2AX, leading to recruitment of FAAP20/C1orf86 and Fanconi anemia (FA) complex, followed by interstrand cross-link repair.

Other Names:

E3 ubiquitin-protein ligase RNF168, hRNF168, RING finger protein 168

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human RNF168. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Species Specificity:

Human

Product Data:

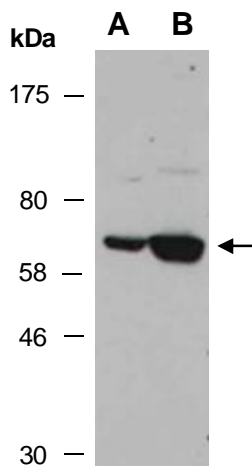


Fig 1. Western blot of total cell extracts from A) human HeLa, B) human Jurkat; using anti-RNF168 (C) (R3275-2) at RT for 2 h.