

## CORRECTION OPEN



# Correction: N4BP3 facilitates NOD2-MAPK/NF- $\kappa$ B pathway in inflammatory bowel disease through mediating K63-linked RIPK2 ubiquitination

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First, our description of the sentence “The results showed that immunoprecipitation of RIPK2 could pull down the N4BP3 and Ub-K63 proteins, but not the Ub-K48 protein” is inaccurate. And it should be revised to “The result showed that immunoprecipitation of RIPK2 could pull down N4BP3 and K63-linkage specific ubiquitin-linked N4BP3, but not K48-linkage specific ubiquitin-linked N4BP3”.

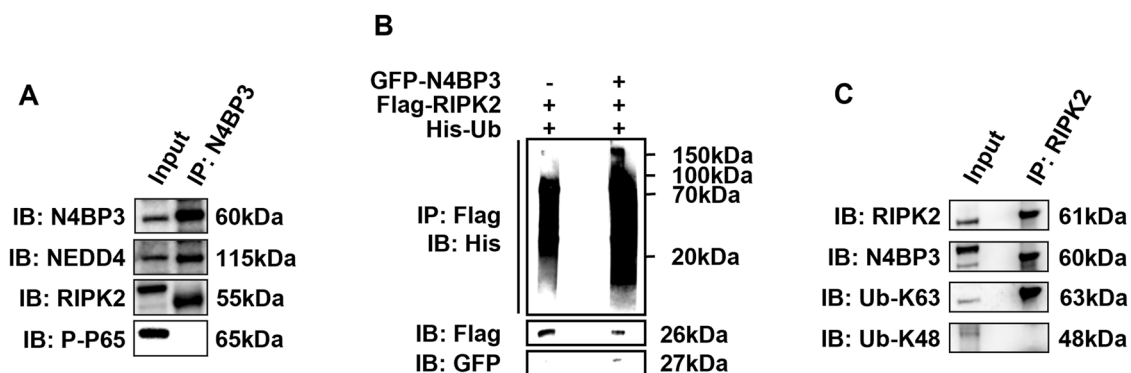
For the molecular weights of Ub-K63 and Ub-K48 in Figure 6C and RIPK2 in Figure 6A, our markings do need to be changed, and we have uploaded both the revised figure 6 and original full length western blots of figure 6 in the attachment.

Second, we apologize that we mischaracterized some words and misquoted a reference in the discussion section.

“XIAP activates the NOD2 pathway by promoting the ubiquitination of RIPK2-M1 connection” should be modified to “XIAP activates the NOD2 pathway by promoting the ubiquitination of RIPK2-K63 connection”.

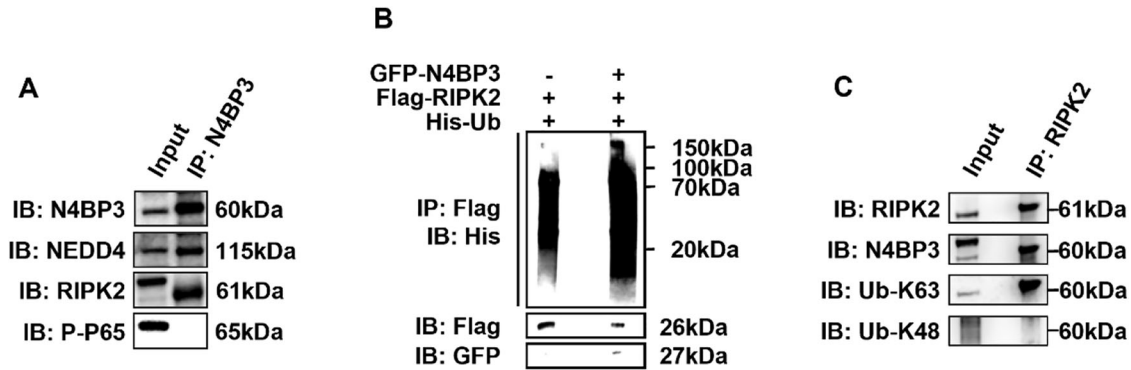
RNF31 does activate the NF- $\kappa$ B pathway through M1-linked ubiquitination, so RNF31 should be excluded from “and TRAF4, RNF31, TRIM27, and RNF34 inhibit the NOD2 pathway by promoting the ubiquitination of RIPK2-K48 connection [38,39,40,41]”.

Original full length western blots of figure 6.



**Figure 6. N4BP3 interacts with RIPK2 and promotes its ubiquitination.** [A] After inducing HCT116 cells with MDP (25  $\mu\text{g/mL}$ ) for 4h, immunoprecipitation of the anti-N4BP3 antibody can pull down N4BP3, NEDD4, and RIPK2, but not P-P65. [B] After co-transfecting GFP-N4BP3 plasmid, Flag-RIPK2 plasmid, and His-Ub plasmid and inducing HCT116 cells with MDP

(25  $\mu\text{g/mL}$ ) for 4h, immunoprecipitation of the anti-Flag antibody can pull down the His antibody for a larger range. [C] After inducing HCT116 cells with MDP (25  $\mu\text{g/mL}$ ) for 4h, immunoprecipitation of the anti-RIPK2 antibody can pull down RIPK2, N4BP3, and K63-linkage specific ubiquitin-linked N4BP3, but not K48-linkage specific ubiquitin-linked N4BP3.



The original article has been corrected.



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