

# BRCC36 Rabbit mAb

Catalog # AP75167

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IP                 |
| <b>Primary Accession</b> | <a href="#">P46736</a> |
| <b>Reactivity</b>        | Human, Mouse, Rat      |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Monoclonal Antibody    |
| <b>Calculated MW</b>     | 36072                  |

## Additional Information

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| <b>Gene ID</b>     | 79184  |
| <b>Other Names</b> | BRCC3  |
| <b>Dilution</b>    | WB~~1/500-1/1000 IP~~N/A   |
| <b>Format</b>      | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.    |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

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| <b>Name</b>     | BRCC3  |
| <b>Synonyms</b> | BRCC36, C6.1A, CXorf53   |
| <b>Function</b> | Metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains (PubMed: <a href="#">19214193</a> , PubMed: <a href="#">20656690</a> , PubMed: <a href="#">24075985</a> , PubMed: <a href="#">26344097</a> ). Does not have activity toward 'Lys- 48'-linked polyubiquitin chains (PubMed: <a href="#">19214193</a> , PubMed: <a href="#">20656690</a> , PubMed: <a href="#">24075985</a> , PubMed: <a href="#">26344097</a> ). Component of the BRCA1-A complex, a complex that specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesions sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at double-strand breaks (DSBs) (PubMed: <a href="#">14636569</a> , PubMed: <a href="#">16707425</a> , PubMed: <a href="#">17525341</a> , PubMed: <a href="#">19202061</a> , PubMed: <a href="#">19261746</a> , PubMed: <a href="#">19261748</a> , PubMed: <a href="#">19261749</a> ). In the BRCA1-A complex, it specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX, antagonizing the RNF8-dependent ubiquitination at double-strand breaks (DSBs) (PubMed: <a href="#">20656690</a> ). Catalytic subunit of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates (PubMed: <a href="#">20656690</a> , PubMed: <a href="#">24075985</a> , PubMed: <a href="#">26195665</a> , |

PubMed:[26344097](#)). Mediates the specific 'Lys-63'-specific deubiquitination associated with the COP9 signalosome complex (CSN), via the interaction of the BRISC complex with the CSN complex (PubMed:[19214193](#)). The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 (PubMed:[26195665](#)). Plays a role in interferon signaling via its role in the deubiquitination of the interferon receptor IFNAR1; deubiquitination increases IFNAR1 activity by enhancing its stability and cell surface expression (PubMed:[24075985](#), PubMed:[26344097](#)). Acts as a regulator of the NLRP3 inflammasome by mediating deubiquitination of NLRP3, leading to NLRP3 inflammasome assembly (By similarity). Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination (PubMed:[24075985](#)). Deubiquitinates HDAC1 and PWWP2B leading to their stabilization (By similarity).

#### Cellular Location

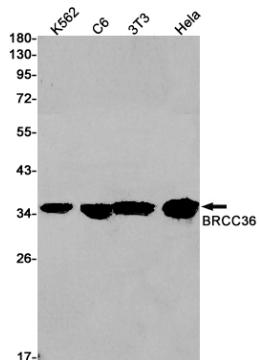
Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole Note=Localizes at sites of DNA damage at double-strand breaks (DSBs) (PubMed:20656690, PubMed:26344097). Interaction with ABRAKAS2 retains BRCC3 in the cytoplasm (PubMed:20656690).

#### Tissue Location

Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Aberrantly expressed in the vast majority of breast tumors.

## Images

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