

# BRCC36 Rabbit mAb

Catalog # AP75167

## Product Information

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

## Additional Information

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

## Protein Information

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Name	BRCC3
Synonyms	BRCC36, C6.1A, CXorf53
Function	<p>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>,</p>

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).

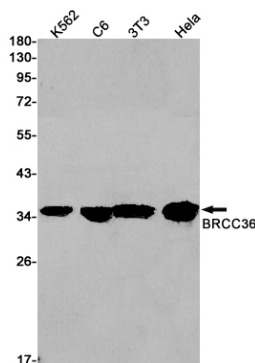
#### Cellular Location

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole Note=Localizes at sites of DNA damage at double-strand breaks (DSBs) (PubMed:20656690, PubMed:26344097). Interaction with ABRAXAS2 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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