

BRCC3 Rabbit pAb

CatalogNo: YN7679

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 35kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Polyclonal

| Immunogen Information

Immunogen

Synthesized peptide derived from human BRCC3

Specificity

This antibody detects endogenous levels of BRCC3 at Human, Mouse, Rat

| Target Information

Gene name

BRCC3 BRCC36 C6.1A CXorf53

Protein Name	Lys-63-specific deubiquitinase BRCC36 (BRCA1-A complex subunit BRCC36) (BRCA1/BRCA2-containing complex subunit 3) (BRCA1/BRCA2-containing complex subunit 36) (BRISC complex subunit BRCC36)		
	Organism	Gene ID	UniProt ID
	Human	79184;	P46736;
	Mouse	210766;	P46737;
	Rat	316794;	B2RYM5;
Cellular Localization	Nucleus . Cytoplasm . Cytoplasm, cytoskeleton, spindle pole . 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 specificity	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Aberrantly expressed in the vast majority of breast tumors.		
Function	Metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains . Does not have activity toward 'Lys-48'-linked polyubiquitin chains. 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). 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) . Catalytic subunit of the BRISC complex, a multiprotein complex that specifically cleaves 'Lys-63'-linked ubiquitin in various substrates . 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 . The BRISC complex is required for normal mitotic spindle assembly and microtubule attachment to kinetochores via its role in deubiquitinating NUMA1 . 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 . Down-regulates the response to bacterial lipopolysaccharide (LPS) via its role in IFNAR1 deubiquitination . Deubiquitinates HDAC1 and PWWP2B leading to their stabilization (By similarity).		

Validation Data

Contact information

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