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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Please scan the QR code to access additional product information:
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