Recombinant Human Lys-63-specific deubiquitinase BRCC36(BRCC3)

Catalog No: #AP70088

Package Size: #AP70088-1 20ug #AP70088-2 100ug #AP70088-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Human Lys-63-specific deubiquitinase BRCC36(BRCC3)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-316aaSequence Info:Full Length
Other Names	BRCA1-A complex subunit BRCC36 BRCA1,BRCA2-containing complex subunit 3 BRCA1,BRCA2-containing complex subunit 36 BRISC complex subunit BRCC36
Accession No.	P46736
Calculated MW	51.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	AVQVVQAVQAVHLESDAFLVCLNHALSTEKEEVMGLCIGELNDDTRSDSKFAYTGTEMRTVAEKVDAVRIVHI HSVIILRRSDKRKDRVEISPEQLSAASTEAERLAELTGRPMRVVGWYHSHPHITVWPSHVDVRTQAMYQMMD QGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQKSSESLHGPRDFWSSSQHISIEGQKEEERYERIEIPIHIVPHV TIGKVCLESAVELPKILCQEEQDAYRRIHSLTHLDSVTKIHNGSVFTKNLCSQMSAVSGPLLQWLEDRLEQNQQ HLQELQQEKEELMQELSSLE
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

"Isolation and sequence of two genes associated with a CpG island 5' of the factor VIII gene."
Kenwrick S., Levinson B., Taylor S., Shapiro A., Gitschier J.
Hum. Mol. Genet. 1:179-186(1992) Research Topic:Cell Biology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.