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-20C BRCC36 (D5E5H) Rabbit mAb 8215



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| Applications: W, IP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 33, 40 | Source/Isotype: Rabbit IgG | UniProt ID: #P46736 | Entrez-Gene Id: 79184 | | |
|---|--------------------------------|--|--|--|------------------------------------|---------------------------------|--|--|
| Product Usage Information | | Application Western Blotting Immunoprecipitation | | | Dilution 1:1000 1:100 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | rol and less than | | |
| Specificity/Sensitivity | | BRCC36 (D5E5H) Rabbit mAb recognizes endogenous levels of total BRCC36 protein. This antibody detects BRCC36 isoform1 and BRCC36 isoform2. | | | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His251 of human BRCC36 isoform 2 protein. | | | | | | |
| Background Protein ubiquitination and deubiquitination are reversible processes catalyzed by ubiquitina enzymes and deubiquitinating enzymes, respectively (1,2). Deubiquitinating enzymes (DUBs categorized into five subfamilies based on catalytic domain structure: USP, OTU, MJD, UCH, a JAMM/MPN. BRCC36 is a zinc-dependent DUB belonging to the JAMM/MPN subfamily and pa in DNA damage responses and interferon signaling by specifically catalyzing hydrolysis of K6 polyubiquitin chains (3,4). In the nucleus, BRCC36 is part of the BRCA1-A complex that conta BRCA1, ABRAXAS, and MERIT40 (5,6). This complex plays a critical role in mediating the cellu DNA double strand breaks induced by ionizing radiation (7-10). Research studies have shown BRCC36 is overexpressed in a high percentage of breast tumors, which may contribute to rebreast cancer cells to ionizing radiation-induced apoptosis (4). BRCC36 also functions in the as part of a distinct complex known as the BRCC36-containing isopeptide complex (BRISC) (5 research studies have shown that BRCC36 deubquitinates and stabilizes IFNAR1 to modulate cellular response to interferons (3). | | | | es (DUBs) are b, UCH, and y and participates vsis of K63-linked at contains RAP80, the cellular repair of ve shown that ute to resistance of s in the cytoplasm BRISC) (5,6). Indeed, | | | | |
| Background Re | eferences | Nijman, S.M. et al. (2005) <i>Cell</i> 123, 773-86. Nalepa, G. et al. (2006) <i>Nat Rev Drug Discov</i> 5, 596-613. Zheng, H. et al. (2013) <i>Cell Rep</i> 5, 180-93. Chen, X. et al. (2006) <i>Cancer Res</i> 66, 5039-46. Feng, L. et al. (2010) <i>J Biol Chem</i> 285, 30982-8. Patterson-Fortin, J. et al. (2010) <i>J Biol Chem</i> 285, 30971-81. Shao, G. et al. (2009) <i>Proc Natl Acad Sci U S A</i> 106, 3166-71. Wang, B. and Elledge, S.J. (2007) <i>Proc Natl Acad Sci U S A</i> 104, 20759-63. Sobhian, B. et al. (2009) <i>Genes Dev</i> 23, 729-39. | | | | | | |
| Species Reactiv | vitv | Species reactivity is det | ermined by testing | n in at least one approve | ed application (e.g. | western blot) | | |
| Western Blot B | - | Species reactivity is determined by testing in at least one approved application (e.g., western blot). IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | | | |
| Applications K | ey | W: Western Blotting IP: Immunoprecipitation | | | | | | |
| Cross-Reactivit | ty Key | H: Human M: Mouse R: Rat Mk: Monkey | | | | | | |
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