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Datasheet for ABIN6242777
anti-BRCA2 antibody (AA 251-495)

1 Image

Overview

Quantity:	200 µL
Target:	BRCA2
Binding Specificity:	AA 251-495
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This BRCA2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This BRCA2 antibody is generated from a mouse immunized with a recombinant protein between 251-495 amino acids from human BRCA2.
Clone:	1643CT739-91-87
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	BRCA2
Alternative Name:	BRCA2 (BRCA2 Products)
Background:	Involved in double-strand break repair and/or homologous recombination. Binds RAD51 and

Target Details

potentiates recombinational DNA repair by promoting assembly of RAD51 onto single-stranded DNA (ssDNA). Acts by targeting RAD51 to ssDNA over double-stranded DNA, enabling RAD51 to displace replication protein-A (RPA) from ssDNA and stabilizing RAD51-ssDNA filaments by blocking ATP hydrolysis. Part of a PALB2-scaffolded HR complex containing RAD51C and which is thought to play a role in DNA repair by HR. May participate in S phase checkpoint activation. Binds selectively to ssDNA, and to ssDNA in tailed duplexes and replication fork structures. May play a role in the extension step after strand invasion at replication-dependent DNA double-strand breaks, together with PALB2 is involved in both POLH localization at collapsed replication forks and DNA polymerization activity. In concert with NPM1, regulates centrosome duplication. Interacts with the TREX-2 complex (transcription and export complex 2) subunits PCID2 and DSS1, and is required to prevent R-loop- associated DNA damage and thus transcription-associated genomic instability. Silencing of BRCA2 promotes R-loop accumulation at actively transcribed genes in replicating and non-replicating cells, suggesting that BRCA2 mediates the control of R-loop associated genomic instability, independently of its known role in homologous recombination (PubMed:< a href="http://www.uniprot.org/citations/24896180" target="_blank">24896180).

Molecular Weight: 384202

UniProt: [P51587](#)

Pathways: [DNA Damage Repair](#), [M Phase](#), [Maintenance of Protein Location](#)

Application Details

Application Notes: WB: 1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

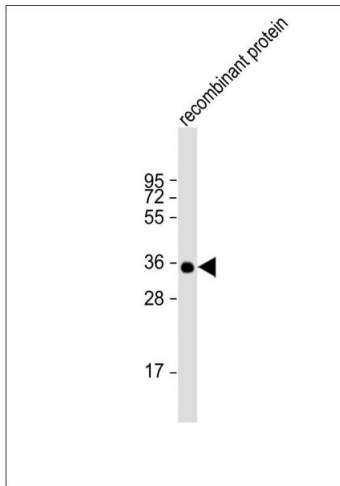
Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Expiry Date: 6 months



Western Blotting

Image 1. Anti-BRCA2 Antibody at 1:2000 dilution + recombinant protein Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 384 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.