

BRCA2 antibody

Product Information

Catalog No.:	FNab10454
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Involved in double-strand break repair and/or homologous recombination. Binds RAD51 and 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 SHFM1/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:24896180).

Immunogen information

Immunogen:	breast cancer 2, early onset
Synonyms:	Breast cancer type 2 susceptibility protein Fanconi anemia group D1 protein BRCA2 FACD FANCD1

Observed MW: 384 kDa

Uniprot ID : P51587

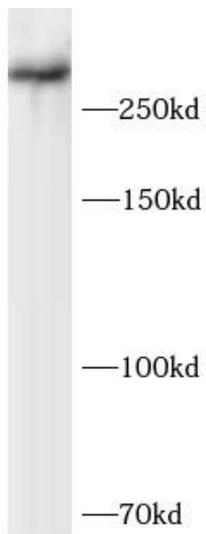
Application

Reactivity: Human

Tested Application: ELISA, WB

Recommended dilution: WB: 1:200-1:1000

Image:



A549 cells were subjected to SDS PAGE followed by western blot with FNab10454(BRCA2 antibody) at dilution of 1:800