

Recombinant Human BRCA2

Cat. No. BRCA2-27673TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 3319-3418 of Human BRCA2, with a proprietary tag; predicted Mwt 36.63kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Highest levels of expression in breast and thymus, with slightly lower levels in lung, ovary and spleen.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SPQMTPFKKFNEISLLESNSIADEELALINTQALLSGSTGEKQFISVSESTRTAPTSSE DYLRRLKRRCTTSLIKEQESSQASTEECEKNKQDTITTKKYI
Sequence Similarities	Contains 8 BRCA2 repeats.

GENE INFORMATION

Gene Name	BRCA2 breast cancer 2, early onset [Homo sapiens]
Official Symbol	BRCA2
Synonyms	BRCA2; breast cancer 2, early onset; FACD, FANCD, FANCD1, Fanconi anemia, complementation group D1; breast cancer type 2 susceptibility protein; BRCA1/BRCA2 containing complex; subunit 2; BRCC2; FAD; FAD1;
Gene ID	675
mRNA Refseq	NM_000059
Protein Refseq	NP_000050
MIM	600185
Uniprot ID	P51587

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Chromosome Location	13q12-q13
Pathway	DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; FOXM1 transcription factor network, organism-specific biosystem; Fanconi Anemia pathway, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem;
Function	DNA binding; H3 histone acetyltransferase activity; H4 histone acetyltransferase activity; gamma-tubulin binding; NOT histone acetyltransferase activity;

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