
anti- BRCA1

Cat #: HM1040
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

BRCA1 functions as a tumor suppressor in human breast cancer cells. Mutations within this gene are believed to account for approximately 45% of families with high incidence of breast cancer and at least 80% of families with increased incidence of both early-onset breast cancer and ovarian cancer. BRCA1 may function as a transcriptional regulator. It has an amino terminal DNA-binding ring finger motif, nuclear localization signals, and an acidic carboxy terminal domain. BRCA1 may normally serve as a negative regulator of mammary epithelial cell growth. This function is compromised in breast cancer either by direct mutation or by alterations in gene expression. BRCA1 participates in transcription-coupled repair of oxidative DNA damage. The BRCA1 gene is expressed in numerous tissues, including breast and ovary, and encodes a predicted protein of 1863 amino acids. Alternative splicing may play a significant role in modulating the subcellular localization and physiological function of BRCA1.

SOURCE

BRCA1 is an affinity purified rabbit polyclonal antibody raised against a recombinant protein corresponding to the carboxy terminus of BRCA1 of human origin.

SPECIFICITY

BRCA1 is recommended for detection of BRCA1 of human, rat origin by Western blotting, immunoprecipitation and immunohistochemistry. Molecular Weight of BRCA1: 225 kDa. Western blotting positive controls: A-431.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

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