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Datasheet

BRCA1 monoclonal antibody, clone KEN

Catalog Number: MAB2363

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against partial recombinant BRCA1.

Clone Name: KEN

Immunogen: Recombinant protein corresponding to amino acids 1314-1864 of human BRCA1.

Host: Mouse

Reactivity: Human

Applications: ICC, IF, IP, WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody recognizes the epitope aa 1314-1600.

Form: Liquid

Recommend Usage: Immunocytochemistry (1:100)
Western Blot (2-4 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer: In buffer containing 0.05% sodium azide

Storage Instruction: Store at -20°C or -80°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 672

Gene Symbol: BRCA1

Gene Alias: BRCAI, BRCC1, IRIS, PSCP, RNF53

Gene Summary: This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complexes. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in this gene are responsible for approximately 40% of inherited breast cancers and more than 80% of inherited breast and ovarian cancers. Alternative splicing plays a role in modulating the subcellular localization and physiological function of this gene. Many alternatively spliced transcript variants, some of which are disease-associated mutations, have been described for this gene, but the full-length natures of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified. [provided by RefSeq]

References:

1. A member of the Pyrin family, IFI16, is a novel BRCA1-associated protein involved in the p53-mediated apoptosis pathway. Aglipay JA, Lee SW, Okada S, Fujiuchi N, Ohtsuka T, Kwak JC, Wang Y, Johnstone RW, Deng C, Qin J, Ouchi T. Oncogene. 2003 Dec 4;22(55):8931-8.
2. Cell cycle differences in DNA damage-induced BRCA1 phosphorylation affect its subcellular localization. Okada S, Ouchi T. J Biol Chem. 2003 Jan 17;278(3):2015-20. Epub 2002 Nov 8.