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Datasheet

RAD18 polyclonal antibody

Catalog Number: PAB15575

Regulation Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against partial recombinant RAD18.

Immunogen: Recombinant GST fusion protein corresponding to C-terminus 113 amino acids of human RAD18.

Host: Rabbit

Reactivity: Human

Applications: 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 is specific to human RAD18.

Form: Liquid

Recommend Usage: Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide, 50% glycerol)

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

Entrez GeneID: 56852

Gene Symbol: RAD18

Gene Alias: RNF73

Gene Summary: The protein encoded by this gene is highly similar to S. cerevisiae DNA damage repair protein Rad18. Yeast Rad18 functions through its interaction with Rad6, which is an ubiquitin-conjugating enzyme required for post-replication repair of damaged DNA. Similar to its yeast counterpart, this protein is able to interact with the human homolog of yeast Rad6 protein through a conserved ring-finger motif. Mutation of this motif results in defective replication of UV-damaged DNA and hypersensitivity to multiple mutagens. [provided by RefSeq]

References:

1. Differential regulation of Rad18 through Rad6-dependent mono- and polyubiquitination. Miyase S, Tateishi S, Watanabe K, Tomita K, Suzuki K, Inoue H, Yamaizumi M. J Biol Chem. 2005 Jan 7;280(1):515-24. Epub 2004 Oct 27.
2. Rad18 guides poleta to replication stalling sites through physical interaction and PCNA monoubiquitination. Watanabe K, Tateishi S, Kawasuji M, Tsurimoto T, Inoue H, Yamaizumi M. EMBO J. 2004 Oct 1;23(19):3886-96. Epub 2004 Sep 9.
3. Dysfunction of human Rad18 results in defective postreplication repair and hypersensitivity to multiple mutagens. Tateishi S, Sakuraba Y, Masuyama S, Inoue H, Yamaizumi M. Proc Natl Acad Sci U S A. 2000 Jul 5;97(14):7927-32.