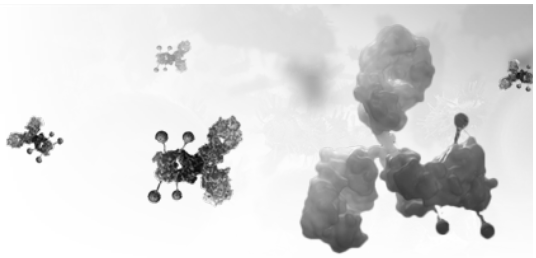

Mouse anti-Human RAD9 monoclonal antibody, clone 67/iSbe0 (CABT-B9219)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human hRAD9 aa. 264-370
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	67/iSbe0
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF
Format	Liquid
Concentration	250 μg/ml
Size	50 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Cell cycle checkpoints are regulatory mechanisms that prevent cell cycle progression in the

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	presence of DNA damage or incompletely replicated DNA. Many of the genes required for cell-cycle arrest are also involved in DNA repair, apoptosis, and induction of transcription. In yeast and humans, hRAD9 plays a role in cell cycle arrest during the G2 phase before entry into mitosis. Phosphorylated hRAD9 is found in the nucleus after DNA damage, and forms DNA damage-responsive complexes with other putative checkpoint control proteins, such as hRAD1 and hHUS1. Expression of hRAD9 in S. pombe rad9::ura4+ cells restores resistance to the DNA synthesis inhibitor hydroxyurea and gamma rays. In addition, hRAD9 binds the anti-apoptotic proteins, Bcl-2 and Bcl-xL, and antisense hRAD9 RNA suppresses DNA-damage induced cell death. Thus, hRAD9 may be an important component of protein complexes that regulate cell cycle progression, as well as apoptosis, in response to DNA damage.
Keywords	Cell cycle checkpoint control protein; Cell cycle checkpoint control protein RAD9A; DNA repair exonuclease rad9 homolog A; hRAD 9; hRAD9; Rad 9; RAD 9A; RAD9 (S pombe) homolog; RAD9 homolog A; RAD9 homolog; RAD9A; RAD9A_HUMAN

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