

## Datasheet

### **RAD18 monoclonal antibody (M01), clone 3H7**

**Catalog Number:** H00056852-M01

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant RAD18.

**Clone Name:** 3H7

**Immunogen:** RAD18 (NP\_064550, 332 a.a. ~ 430 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

EKEIDEIHSKYRKKHKSEFQLLDQARKGYKKIAGMSQ  
KTVTITKEDESTKLSVCMGQEDNMTSVTNHFSQSK  
LDSPEELEPDREEDSSSCIDIQEV

**Host:** Mouse

**Reactivity:** Human, Rat

**Applications:** ELISA, IF, IHC-P, RNAi-Ab, S-ELISA, WB-Ce, WB-Re, WB-Tr  
(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

**Isotype:** IgG2b Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. 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. The ubiquitin specific protease USP34 promotes ubiquitin signaling at DNA double-strand breaks. Sy SM, Jiang J, O WS, Deng Y, Huen MS *Nucleic Acids Res.* 2013 Jul 17.
2. Phosphorylation of human INO80 is involved in DNA damage tolerance Kato D, Waki M, Umezawa M, Aoki Y, Utsugi T, Ohtsu M, Murakami Y. *Biochem Biophys Res Commun.* 2011 Dec 7. [Epub ahead of print]
3. Elevated expression of Rad18 regulates melanoma cell proliferation. Wong RP, Aguisa-Toure AH, Wani AA, Khosravi S, Martinka M, Martinka M, Li G. *Pigment Cell Melanoma Res.* 2011 Dec 6. doi: 10.1111/j.1755-148X.2011.00948.x. [Epub ahead of print]