

Product datasheet for **TA336384**

RAD18 Mouse Monoclonal Antibody [Clone ID: 79B1048.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	79B1048.1
Applications:	WB
Recommended Dilution:	Western Blot: 2-4 ug/ml
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The antibody was raised against a synthetic peptide corresponding to the amino acids 402-414 of human Rad18.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	RAD18, E3 ubiquitin protein ligase
Database Link:	NP_064550 Entrez Gene 56852 Human Q9NS91



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Background:

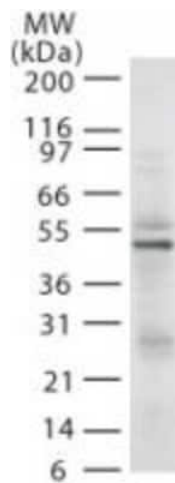
Human Rad18 (hRad18) is homologue of the *S. pombe* Rad18 (3,4). In yeast, Rad6 and Rad18 play a crucial role in post-replication repair functions in gap-filling of a daughter strand on replication of damaged DNA (2). Furthermore, Rad6-Rad18 interaction is thought to be critical at an early step during lesion bypass in yeast. In vivo, Rad18 protein forms a tight complex with Rad6 through a conserved ring-finger motif (3,4). It has been suggested that Rad18-Rad6 complex binds to the damaged sites by the single-stranded DNA binding property of Rad 18. This is followed by degradation of the stalled components of DNA replication by ubiquitin-conjugating enzyme activity of Rad6 (1). The human Rad18 maps on chromosome 3p24-25, the region which is often deleted in lung, breast, ovary, and testis cancers. The human RAD18 gene codes for a protein of 495 amino acids with a predicted molecular weight of 56 kDa. The human Rad18 is ubiquitously expressed in various human tissues.

Synonyms:

RNF73

Protein Families:

Druggable Genome

Product images:

Western Blot: RAD18 Antibody (79B1048.1)
TA336384 - The anti-Rad18 mAb was diluted at 2 ug/ml and tested against 20 ug of HL-60 cell lysate.