Recombinant human E3 ubiquitin-protein ligase RAD18

Catalog No: #AP71601

Package Size: #AP71601-1 20ug #AP71601-2 100ug #AP71601-3 1mg

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Description

Product Name	Recombinant human E3 ubiquitin-protein ligase RAD18
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-495aaSequence Info:Full Length
Other Names	Postreplication repair protein RAD18 ;hHR18 ;hRAD18RING finger protein 73
Accession No.	Q9NS91
Uniprot	Q9NS91
GeneID	56852;
Calculated MW	72.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MDSLAESRWPPGLAVMKTIDDLLRCGICFEYFNIAMIIPQCSHNYCSLCIRKFLSYKTQCPTCCVTVTEPDLKNN RILDELVKSLNFARNHLLQFALESPAKSPASSSSKNLAVKVYTPVASRQSLKQGSRLMDNFLIREMSGSTSELLI KENKSKFSPQKEASPAAKTKETRSVEEIAPDPSEAKRPEPPSTSTLKQVTKVDCPVCGVNIPESHINKHLDSCL SREEKKESLRSSVHKRKPLPKTVYNLLSDRDLKKKLKEHGLSIQGNKQQLIKRHQEFVHMYNAQCDALHPKSA AEIVREIENIEKTRMRLEASKLNESVMVFTKDQTEKEIDEIHSKYRKKHKSEFQLLVDQARKGYKKIAGMSQKTV TITKEDESTEKLSSVCMGQEDNMTSVTNHFSQSKLDSPEELEPDREEDSSSCIDIQEVLSSSESDSCNSSSSDI IRDLLEEEEAWEASHKNDLQDTEISPRQNRRTRAAESAEIEPRNKRNRN
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

E3 ubiquitin-protein ligase involved in postreplication repair of UV-damaged DNA. Postreplication repair functions in gap-filling of a daughter strand on replication of damaged DNA. Associates to the E2 ubiquitin conjugating enzyme UBE2B to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. Has ssDNA binding activity.

References

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. 97:7927-7932(2000)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only