

Product datasheet for TP506078

Rad9a (NM_011237) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse RAD9 checkpoint clamp component A (Rad9a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206078 protein sequence Red =Cloning site Green =Tags(s)

MKCLITGGNVKVLGKAVHLSRIGDELYLEPLKDGLSLRTVNSSRSAYACFLFAPLFFQYQAASPGQDL
LRCKILMKAFLSVFRSLAIVEKSVEKCCISLSGSHSLVQLHCKYGVKKTNLSFQDCESLQAVFDPAS
CPHLLRTPARVLAEAVLSFPLALTEVTLGIGRGRVILRSYQEEADSTSKAMVTETSIGDEDFQQLHAP
EGIAVTFCLKEFRGLLSFAESANLPLTIHFDVPGRPVIFTIEDSLLDAHFLVATLLEQDSCSQCPCSPKP
HQPVPQKQAHSTPHLDDFTSDDIDCYMIAMETTGGNEGSGAQPSTSLPPVSLASHDLAPTSEEEAEPSTV
PGTPPPKKFRSLFFGSILAPVHSPQGNPVLAEVSDGEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	42.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_035367
Locus ID:	19367
UniProt ID:	Q9Z0F6



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RefSeq Size: 2046

Cytogenetics: 19 A

RefSeq ORF: 1170

Synonyms: Rad9

Summary: Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. RAD9A possesses 3'->5' double stranded DNA exonuclease activity (By similarity).[UniProtKB/Swiss-Prot Function]