

Product datasheet for PH322194

RAD52 (NM_134424) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RAD52 MS Standard C13 and N15-labeled recombinant protein (NP_602296)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222194
Predicted MW:	46 kDa
Protein Sequence:	>RC222194 representing NM_134424 Red=Cloning site Green=Tags(s)

MSGTEEAILGGRDSPAAGGGSVLCFGQCQYTAEEYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEGHR
VINLANEMFGYNGWAHSITQQNVDFVDLNNKGFYVGVCASFVRVQLKDGSYHEDVGYGVSEGLKSKALSLE
KARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVEEARYNSCRP
NMALGHPQLQQVTSRPSHAVIPADQDCSSRSLSSSAVESEATHQRKLRQKQLQQQFRERMEKQQVVRV
TPSAEKSEAAPPAPPVTHSTPVTVSEPLLEKDFLAGVTQELIKTLEDNSEKWAVTPDAGDGVVKPSSRAD
PAQTSDTLALNNQMTQNRTPHSVCHQKPKQAKSGSWDLQTYADQRTTGNWESHRSQDMKKRKYDPS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_602296</u>
RefSeq Size:	2673
RefSeq ORF:	1254
Locus ID:	5893
UniProt ID:	<u>P43351</u> , <u>Q5DR82</u>



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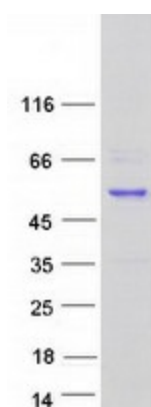
Cytogenetics: 12p13.33

Summary: The protein encoded by this gene shares similarity with *Saccharomyces cerevisiae* Rad52, a protein important for DNA double-strand break repair and homologous recombination. This gene product was shown to bind single-stranded DNA ends, and mediate the DNA-DNA interaction necessary for the annealing of complementary DNA strands. It was also found to interact with DNA recombination protein RAD51, which suggested its role in RAD51 related DNA recombination and repair. A pseudogene of this gene is present on chromosome 2. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2014]

Protein Families: Druggable Genome

Protein Pathways: Homologous recombination

Product images:



Coomassie blue staining of purified RAD52 protein (Cat# [TP322194]). The protein was produced from HEK293T cells transfected with RAD52 cDNA clone (Cat# [RC222194]) using MegaTran 2.0 (Cat# [TT210002]).