

Product datasheet for PH318333

RAD51 (NM_002875) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards **Description:** RAD51 MS Standard C13 and N15-labeled recombinant protein (NP 002866) Species: Human **HEK293 Expression Host:** RC218333 **Expression cDNA Clone** or AA Sequence: Predicted MW: 36.8 kDa >RC218333 representing NM_002875 **Protein Sequence:** Red=Cloning site Green=Tags(s) MAMQMQLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAPKKELINIKGISEAK ADKILAEAAKLVPMGFTTATEFHQRRSEIIQITTGSKELDKLLQGGIETGSITEMFGEFRTGKTQICHTL AVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVAERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAM MVESRYALLIVDSATALYRTDYSGRGELSARQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFA ADPKKPIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKD TRTRPLEQKLISEEDLAANDILDYKDDDDKV C-Myc/DDK Tag: **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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3 Store at -80°C. Avoid repeated freeze-thaw cycles. Storage: Stability: Stable for 3 months from receipt of products under proper storage and handling conditions. NP 002866 RefSeq: **RefSeq Size:** 2254 **RefSeq ORF:** 1017 Synonyms: BRCC5; FANCR; HRAD51; HsRad51; HsT16930; MRMV2; RAD51A; RECA Locus ID: 5888



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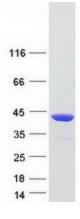
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| | RAD51 (NM_002875) Human Mass Spec Standard – PH318333 |
|-------------------|--|
| UniProt ID: | <u>Q06609</u> |
| Cytogenetics: | 15q15.1 |
| Summary: | The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009] |
| Protein Families: | Druggable Genome, Stem cell - Pluripotency, Transcription Factors |
| Protein Pathway | s: Homologous recombination, Pancreatic cancer, Pathways in cancer |
| | |

Product images:



Coomassie blue staining of purified RAD51 protein (Cat# [TP318333]). The protein was produced from HEK293T cells transfected with RAD51 cDNA clone (Cat# [RC218333]) using MegaTran 2.0 (Cat# [TT210002]).

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