Recombinant Human REV1, His-tagged

Cat. No. REV1-175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	REV1,51-256aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	51-256aa
Description	REV1 contains a BRCT domain, which is important in protein-protein interactions. A suggested role for the human Rev1-like protein is as a scaffold that recruits DNA polymerases involved in translesion synthesis (TLS) of damaged DNA. Two alternatively spliced transcript variants that encode different proteins have been found. Recombinant human REV1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	25.2 kDa (227aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGVAIYVNGY TDPSAEELRK LMMLHGGQYH VYYSRSKTTH IIATNLPNAK IKELKGEKVI RPEWIVESIK AGRLLSYIPY QLYTKQSSVQ KGLSFNPVCR PEDPLPGPSN IAKQLNNRVN HIVKKIETEN EVKVNGMNSW NEEDENNDFS FVDLEQTSPG RKQNGIPHPR GSTAIFNGHT PSSNGALKTQ DCLVPMVNSV ASRLSPA

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Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	REV1 REV1 homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	REV1
Synonyms	REV1; REV1 homolog (S. cerevisiae); REV1 (yeast homolog) like , REV1 like (yeast) , REV1L; DNA repair protein REV1; AIBP80; REV1- like; alpha integrin-binding protein 80; rev1-like terminal deoxycytidyl transferase; REV1L; FLJ21523; MGC26225; MGC163283;
Gene ID	51455
mRNA Refseq	NM_001037872
Protein Refseq	NP_001032961
MIM	606134
UniProt ID	Q9UBZ9
Chromosome Location	2q11.1-q11.2
Pathway	DNA Damage Bypass, organism-specific biosystem; DNA Repair, organism-specific

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	biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Translesion synthesis by DNA polymerases bypassing lesion on DNA template, organism-specific biosystem; Translesion synthesis by HREV1, organism-specific biosystem;
Function	DNA-directed DNA polymerase activity; damaged DNA binding; deoxycytidyl transferase activity; magnesium ion binding; protein binding; transferase activity;

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