

Product datasheet for TP503232

OriGene Technologies, Inc.

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Neil1 (BC043297) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse nei endonuclease VIII-like 1 (E. coli) (cDNA clone

MGC:49102 IMAGE:5320651), complete cds, with C-terminal MYC/DDK tag, expressed in

HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone >MR203232 protein sequence

or AA Sequence: Red=Cloning site Green=Tags(s)

MPEGPELHLASHFVNETCKGLVFGGCVEKSSVSRNPEVPFESSAYHISALARGKELRLTLSPLPGSQPPQ KPLSLVFRFGMSGSFQLVPAEALPRHAHLRFYTAPPAPRLALCFVDIRRFGHWDPGGEWQPGRGPCVLLE YERFRENVLRNLSDKAFDRPICEALLDQRFFNGIGNYLRAEILYRLKIPPFEKARTVLEALQQCRPSPEL

TLSQKIKAKLQNPDLLELCHLVPKEVVQLGEAWGGQDGRRPLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 28.5 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.

 Locus ID:
 72774

 UniProt ID:
 Q8K4Q6

 RefSeq Size:
 1857





Neil1 (BC043297) Mouse Recombinant Protein - TP503232

Cytogenetics: 9 B
RefSeq ORF: 759

Synonyms: 2810450N13Rik; Nei1

Summary: Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as

DNA glycosylase that recognizes and removes damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal activity towards 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to

generate a single-strand break at the site of the removed base with both 3'- and 5'-

phosphates. Has DNA glycosylase/lyase activity towards mismatched uracil and thymine, in particular in U:C and T:C mismatches. Specifically binds 5-hydroxymethylcytosine (5hmC), suggesting that it acts as a specific reader of 5hmC.[UniProtKB/Swiss-Prot Function]