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Datasheet for ABIN5711646

NEIL1 Protein (AA 2-390) (His-SUMO Tag)

1 Image

Overview

Quantity:	100 µg
Target:	NEIL1
Protein Characteristics:	AA 2-390
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NEIL1 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	PEGPELHLAS QFVNEACRAL VFGGCVEKSS VSRNPEVPFE SSAYRISASA RGKELRLILS PLPGAQPQQE PLALVFRFGM SGSFQLVPRE ELPRHAHLRF YTAPPGPRLA LCFVDIRRFG RWDLGKQWQP GRGPCVLQEY QFRENVLRN LADKAFDRPI CEALLDQRFN NGIGNYLRAE ILYRLKIPPF EKARSVLEAL QQHRPSPELT LSQKIRTKLQ NPDLLELCHS VPKEVVQLGG RGYGSSESGEE DFAAFRAWLR CYGMPGMSSL QDRHGRTIWF QGDPGPLAPK GRKSRKKKSK ATQLSPEDRV EDALPPSKAP SRTRAKRDL PKRTATQRPE GTSLQQDPEA PTVPKKGRRK GRQAASGHCR PRKVKADIPS LEPEGTSAS
Purification:	SDS-PAGE
Purity:	> 90 %

Target Details

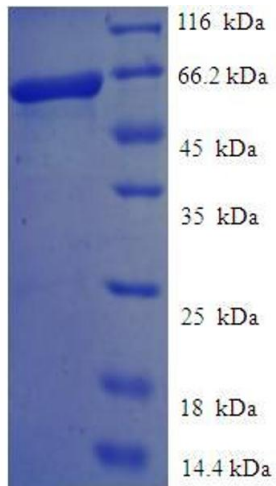
Target:	NEIL1
Alternative Name:	NEIL1 (NEIL1 Products)
Background:	Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Acts as DNA glycosylase that recognizes and roves damaged bases. Has a preference for oxidized pyrimidines, such as thymine glycol, formamidopyrimidine (Fapy) and 5-hydroxyuracil. Has marginal activity towards 8-oxoguanine. Has AP (apurinic/aprimidinic) 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 roved 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.
Molecular Weight:	59.6 kDa
UniProt:	Q96F14
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C
Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



SDS-PAGE

Image 1.