abcam

Product datasheet

Recombinant Human TDP2 protein ab140722

1 Image

Description

Product name	Recombinant Human TDP2 protein
Purity	> 85 % SDS-PAGE. ab140722 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	O95551
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMELGSCL EGGREAAEEE GEPEVKKRRL LCVEFASVAS CDAAVAQCFL AENDWEMERA LNSYFEPPVE ESALERRPET ISEPKTYVDL TNEETTDSTT SKISPSEDTQ QENGSMFSLI TWNIDGLDLN NLSERARGVC SYLALYSPDV IFLQEVIPPY YSYLKKRSSN YEIITGHEEG YFTAIMLKKS RVKLKSQEII PFPSTKMMRN LLCVHVNVSG NELCLMTSHL ESTRGHAAER MNQLKMVLKK MQEAPESATV IFAGDTNLRD REVTRCGGLP NNIVDVWEFL GKPKHCQYTW DTQMNSNLGI TAACKLRFDR IFFRAAAEEG HIIPRSLDLL GLEKLDCGRF PSDHWGLLCN LDIIL
Predicted molecular weight	43 kDa including tags
Amino acids	1 to 362
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab140722** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF

Form	Liquid

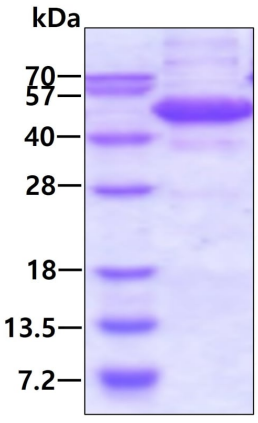
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.88% Sodium chloride

General Info

Function	DNA repair enzyme that can remove a variety of covalent adducts from DNA through hydrolysis of a 5'-phosphodiester bond, giving rise to DNA with a free 5' phosphate. Catalyzes the hydrolysis of dead-end complexes between DNA and the topoisomerase 2 (TOP2) active site tyrosine residue. Hydrolyzes 5'-phosphoglycolates on protruding 5' ends on DNA double-strand breaks (DSBs) due to DNA damage by radiation and free radicals. The 5'-tyrosyl DNA phosphodiesterase activity can enable the repair of TOP2-induced DSBs without the need for nuclease activity, creating a 'clean' DSB with 5'-phosphate termini that are ready for ligation. Has also 3'-tyrosyl DNA phosphodiesterase activity, but less efficiently and much slower than TDP1. May also act as a negative regulator of ETS1 and may inhibit nuclear factor-kappa-B activation.
Tissue specificity	Widely expressed.
Sequence similarities	Belongs to the CCR4/nocturin family.
Cellular localization	Nucleus. Nucleus > PML body.

Images



SDS-PAGE - Recombinant Human TDP2 protein (ab140722)

3ug by SDS-PAGE under reducing conditions and visualized by coomassie blue stain.

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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