

Product datasheet

Recombinant Human SMUG1 protein ab132162

1 Image

Description

Product name	Recombinant Human SMUG1 protein
Expression system	Wheat germ
Accession	<u>Q53HV7-2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEEELRLN AELSQLQFSEP VGIYNPVEYAWEPHRNYVTRYCQGPKEVLFLGMNPGPFG MAQTGVPFGE VSMVRDWLGVGPVLTTPQEHPKRPVLGLECPQSEGPR QSMGHEIKSELL MGGCSWIRGKIQCDRVQVRRPGFSSQL
Predicted molecular weight	46 kDa including tags
Amino acids	1 to 177

Specifications

Our <u>Abpromise guarantee</u> covers the use of ab132162 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Western blot SDS-PAGE ELISA
Form	Liquid
Additional notes	

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
-----------------------	---

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

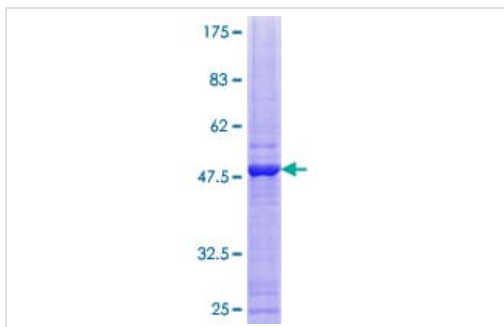
Function

Recognizes base lesions in the genome and initiates base excision DNA repair. Acts as a monofunctional DNA glycosylase specific for uracil (U) residues in DNA with a preference for single-stranded DNA substrates. The activity is greater toward mismatches (U/G) compared to matches (U/A). Excises uracil (U), 5-formyluracil (fU) and uracil derivatives bearing an oxidized group at C5 [5-hydroxyuracil (hoU) and 5-hydroxymethyluracil (hmU)] in ssDNA and dsDNA, but not analogous cytosine derivatives (5-hydroxycytosine and 5-formylcytosine), nor other oxidized bases. The activity is damage-specific and salt-dependent. The substrate preference is the following: ssDNA > dsDNA (G pair) = dsDNA (A pair) at low salt concentration, and dsDNA (G pair) > dsDNA (A pair) > ssDNA at high salt concentration.

Cellular localization

Nucleus.

Images



12.5% SDS-PAGE analysis of ab132162 stained with Coomassie Blue.

SDS-PAGE - Recombinant Human SMUG1 protein
(ab132162)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- 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

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors