

Datasheet for ABIN7184184
anti-SMUG1 antibody



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1 Image

Overview

Quantity:	100 µL
Target:	SMUG1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMUG1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized peptide derived from internal of Human SMUG1.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	SMUG1
Alternative Name:	SMUG1 (SMUG1 Products)
Background:	Background: Responsible for recognizing base lesions in the genome and initiating base excision DNA repair. Acts as a monofunctional DNA glycosylase specific for uracil (U) residues in DNA and has a preference for single-stranded DNA substrates. The activity is greater against

Target Details

mismatches (U/G) than against matches (U/A). Excised 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) and other oxidized damage. The activity is damage specificity and salt concentration-dependent. The general order of the preference for ssDNA and dsDNA is the following: ssDNA > dsDNA (G pair) = dsDNA (A pair) at the low salt concentration. At the high concentration dsDNA (G pair) > dsDNA (A pair) > ssDNA.

Ide H., Biochemistry 42:5003-5012(2003).

Sugano S., Nat. Genet. 36:40-45(2004).

Venter J.C., Submitted (JUL-2005).

Aliases: FDG antibody, HMUDG antibody, MGC104370 antibody, Single strand selective monofunctional uracil DNA glycosylase 1 antibody, Single strand selective monofunctional uracil DNA glycosylase antibody, Single-strand selective monofunctional uracil DNA glycosylase antibody, SMUG 1 antibody, Smug1 antibody, SMUG1 protein antibody, SMUG1_HUMAN antibody, UNG 3 antibody, UNG3 antibody

UniProt: [Q53HV7](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: WB:1:500-1:3000,

Restrictions: For Research Use only

Handling

Format: Liquid

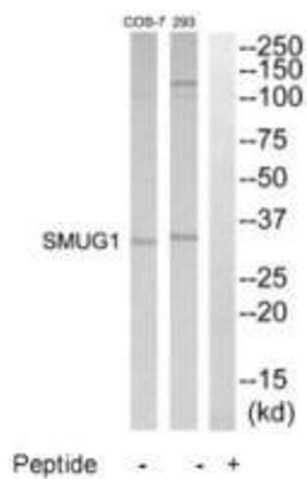
Buffer: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Western Blotting

Image 1. Western blot analysis of extracts from 293 and COS7 cells, using SMUG1 antibody.