



[Go to Product page](#)

Datasheet for ABIN7169740  
**anti-SMUG1 antibody (AA 1-177)**

### Overview

Quantity:	100 µg
Target:	SMUG1
Binding Specificity:	AA 1-177
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMUG1 antibody is un-conjugated
Application:	ELISA

### Product Details

Immunogen:	Recombinant Human Single-strand selective monofunctional uracil DNA glycosylase protein (1-177AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

### Target Details

Target:	SMUG1
Alternative Name:	SMUG1 ( <a href="#">SMUG1 Products</a> )
Background:	Background: Recognizes base lesions in the genome and initiates base excision DNA repair.

## Target Details

---

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. 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: Optimal working dilution should be determined by the investigator.

---

Restrictions: For Research Use only

## Handling

---

Format: Liquid

---

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

---

Preservative: ProClin

---

Precaution of Use: This product contains ProClin: 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.