

Rabbit SMUG1 Polyclonal Antibody | anti-SMUG1 antibody

SMUG1 Antibody

CATALOG # AAA325297	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

SMUG1; Polyclonal Antibody; SMUG1 Antibody; FDG; HMUDG; MGC104370; Single strand selective monofunctional uracil DNA glycosylase 1; Single strand selective monofunctional uracil DNA glycosylase; Single-strand selective monofunctional uracil DNA glycosylase; SMUG 1; Smug1; SMUG1 protein; SMUG1_HUMAN; UNG 3; UNG3; anti-SMUG1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SMUG1 antibody detects endogenous levels of total SMUG1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	270
Applicable Applications for anti-SMUG1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (90%), Dog (90%), Chicken (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of extracts from 293 using SMUG1 antibody.


WB (Western Blot)

Western blot analysis of extracts from rat spleen, using SMUG1 Antibody.



IF (Immunofluorescence)

AAA325297 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SMUG1 antibody	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. Similarity: Belongs to the uracil-DNA glycosylase (UDG) superfamily. SMUG1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	344925869
NCBI GeneID	23583
NCBI Accession #	NP_001230716.1
NCBI GenBank Nucleotide #	NM_001243787.1
UniProt Accession #	Q53HV7; O95862; Q0D2M0; Q8NB71; Q9BWC8; A8K2K9
Molecular Weight	Observed: 32 kD Predicted: 30 kDa
NCBI Official Full Name	single-strand selective monofunctional uracil DNA glycosylase isoform 1
NCBI Official Synonym Full Names	single-strand-selective monofunctional uracil-DNA glycosylase 1
NCBI Official Symbol	SMUG1
NCBI Official Synonym Symbols	FDG; UNG3; HMUDG
NCBI Protein Information	single-strand selective monofunctional uracil DNA glycosylase
UniProt Protein Name	Single-strand selective monofunctional uracil DNA glycosylase
UniProt Gene Name	SMUG1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/srug1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325297>