

Human Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1) ELISA Kit | SMUG1 elisa kit

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CATALOG # AAA138381	REACTIVITY Human
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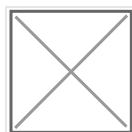
PRODUCT SYNONYMS

Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1); Human Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1) ELISA Kit; FDG; HMUDG; UNG3; SMUG1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1). No significant cross-reactivity or interference between Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1) and analogues was observed.
Sequence Length	177
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.051ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SMUG1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Single Strand Selective Monofunctional Uracil DNA Glycosylase 1 (SMUG1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for SMUG1 elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	344925871
NCBI GeneID	23583
NCBI Accession #	NP_001230717.1
NCBI GenBank Nucleotide #	NM_001243788.1
UniProt Accession #	Q53HV7; O95862; Q0D2M0; Q8NB71; Q9BWC8; A8K2K9
Molecular Weight	19,627 Da
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
UniProt Entry Name	SMUG1_HUMAN

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/human-elisa-kits/single-strand-selective-monofunctional-uracil-dna-glycosylase-1-smug1/138381>