

For Research Use Only

# SMUG1 Polyclonal antibody

Catalog Number: 19857-1-AP



## Basic Information

### Catalog Number:

19857-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13934

### GenBank Accession Number:

BC000417

### GeneID (NCBI):

23583

### UNIPROT ID:

Q53HV7

### Full Name:

single-strand-selective monofunctional uracil-DNA glycosylase 1

### Calculated MW:

177 aa, 20 kDa

### Observed MW:

34 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human

### Positive Controls:

WB : COLO 320 cells, HEK-293 cells, HeLa cells, K-562 cells

## Background Information

UNG(Uracil-DNA glycosylase) removes uracil in DNA resulting from deamination of cytosine or replicative incorporation of dUMP instead of dTMP. Thus, UNG plays a role in suppressing GC-to-AT transition mutations. The UNG gene encodes 2 isoforms that are individually targeted to the mitochondria and the nucleus(PMID:12369930). Defects in UNG are a cause of immunodeficiency with hyper-IgM type 5 (HIGM5). This antibody is specific to UNG.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

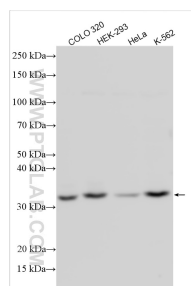
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19857-1-AP (SMUG1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.