

For Research Use Only

SMUG1 Recombinant antibody

Catalog Number: 83771-5-RR



Basic Information

Catalog Number:

83771-5-RR

Size:

100ul , Concentration: 1000 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:

30 kDa

Purification Method:

Protein A purification

CloneNo.:

240817E4

Recommended Dilutions:

WB 1:5000-1:50000

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : MOLT-4 cells, K-562 cells, HEK-293 cells, COLO 320 cells, HeLa 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).

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

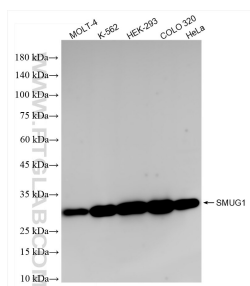
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

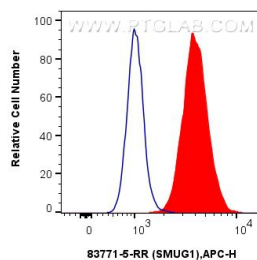
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

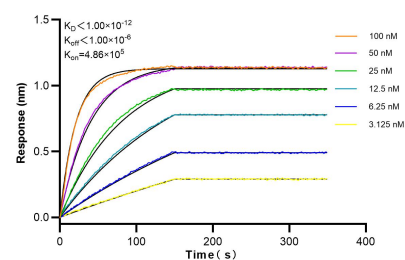
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83771-5-RR (SMUG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 U-2 OS were intracellularly stained with 0.25 μ g SMUG1 Recombinant antibody (83771-5-RR, Clone:240817E4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83771-5-RR against Human SMUG1 were performed. The affinity constant is below 1 pM.