

For Research Use Only

SMUG1 Recombinant antibody

Catalog Number: 83771-5-RR



Basic Information

Catalog Number:

83771-5-RR

Size:

1000 µg/ml

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

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

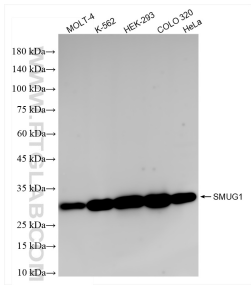
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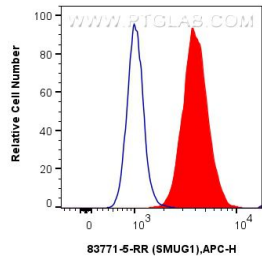
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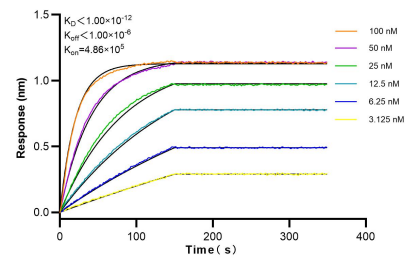
Selected Validation Data



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.



1x10⁶ U-2 OS were intracellularly stained with 0.25 ug SMUG1 Recombinant antibody (83771-5-RR, Clone:240817E4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug 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.