For Research Use Only

SMPD2 Recombinant antibody

Catalog Number:83520-3-RR



Basic Information

Catalog Number: GenBank Accession Number:

Purification Method: 83520-3-RR BC000038 Protein A purification

GeneID (NCBI): CloneNo.: 100ul , Concentration: 1000 $\mu g/ml$ by 6610 240400B5

Nanodrop: **UNIPROT ID:** Recommended Dilutions: 060906 WB 1:5000-1:50000

Rabbit Full Name:

Isotype: sphingomyelin phosphodiesterase 2, neutral membrane (neutral IgG

sphingomyelinase) Immunogen Catalog Number:

Calculated MW: AG7367 48 kDa Observed MW: 48 kDa

Applications

Tested Applications: Positive Controls:

WB, FC (Intra), ELISA WB: HepG2 cells, HEK-293T cells, MOLT-4 cells, SH-

Species Specificity: SY5Y cells

human

Background Information

 $SMPD2, Sphingomyelin\ phosphodiesterase\ 2, is\ also\ named\ as\ Lyso-platelet-activating\ factor-phospholipase\ C\ and\ phospholipase\ D\ and\ phospholipase\$ neutral sphingomyelinase (nSMase). It is involved in the sphingolipid metabolism pathway, which can catalyze the hydrolysis of sphingomyelin to form ceramide and phosphocholine. Smpd2/Smpd3 double-mutant mice were found to have severe retardation of late embryonic and postnatal growth and delayed puberty, belonging to hypothalamus-induced combined pituitary hormone deficiency (PubMed: 15764706).

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.

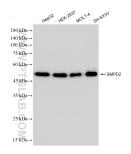
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

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

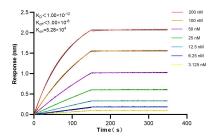
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83520-3-RR (SMPD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

1x10^6 U2OS cells were intracellularly stained with 0.25 ug SMPD2 Recombinant antibody (83520-3-RR, Clone:240400B5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

1x10^6 HeLa cells were intracellularly stained with 0.25 ug SMPD2 Recombinant antibody (83520-3-RR, Clone:240400B5) and APC-Conjugated Affini Pure Goat Anti-Rabbit 1gG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLL) kinetic assays of 83520-3-RR against Human SMPD2 were performed. The affinity constant is below 1 pM.