GM2A Monoclonal antibody

Catalog Number:66080-1-Ig Featured Product

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Basic Information

Catalog Number:
66080-1-Ig

Concentration:
2000 ug/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG4394

GenBank Accession Number:
BC009273

GeneID (NCBI):
2760

UNIPROT ID:
P17900

Full Name:
GM2 ganglioside activator

Calculated MW:
22 kDa

Observed MW:
22 kDa

Purification Method:
Protein A purification

CloneNo.:
1E4D3

Recommended Dilutions:
WB 1:500-1:1000

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human

Positive Controls:
WB : Hela cells, human placenta tissue

Background Information

GM2A, also named as GM2-AP and SAP-3, is the large binding pocket which can accommodate several single chain phospholipids and fatty acids. GM2A also exhibits some calcium-independent phospholipase activity. It plays a key role in the degradation of ganglioside GM2 (GM2). GM2A stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A.

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage
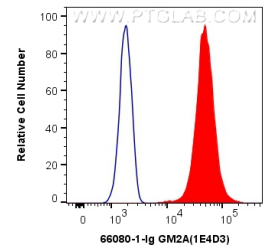
Selected Validation Data
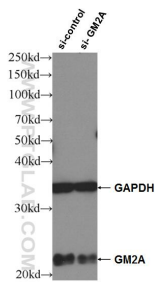
WB result of GM2A antibody (66080-1-Ig; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GM2A transfected HeLa cells.
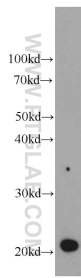
HeLa cells were subjected to SDS PAGE followed by western blot with 66080-1-Ig (GM2A antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

1X10^6 HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human GM2A (66080-1-Ig, Clone:1E4D3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).