For Research Use Only

Septin 2 Monoclonal antibody

Catalog Number:60075-1-Ig Featured Product 16 Publications

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Basic Information

Catalog Number:
60075-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG1946

GenBank Accession Number:
BC014455

GeneID (NCBI):
4735

UNIPROT ID:
Q15019

Full Name:
septin 2

Calculated MW:
41 kDa

Observed MW:
42-45 kDa

Purification Method:
Protein G purification

CloneNo.:
2F3B2

Recommended Dilutions:
WB 1:20000-1:100000
IHC 1:50-1:2000
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IHC, FC (Intra), ELISA, IF

Cited Applications:
WB, IF, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LNCaP cells, Jurkat cells, fetal human brain tissue, human testis tissue, HeLa cells, HEK-293 cells, HepG2 cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, MCF-7 cells, HSCT6 cells, ROS1728 cells, Neuro-2A cells

IHC : human renal cell carcinoma tissue, human brain tissue, human liver cancer tissue

IF/ICC : hTERT-RPE cells, K-562 cells

Background Information

Septin 2, also named as DIFF6, KIAA0158, NEDD5, belongs to the septin family. It is a filament-forming cytoskeletal GTPase. Septin 2 is required for normal organization of the actin cytoskeleton. It plays a role in ciliogenesis and collective cell movements. Septin 2 is coordinated expression with Septin 6 and Septin 7. (PMID:21737677)

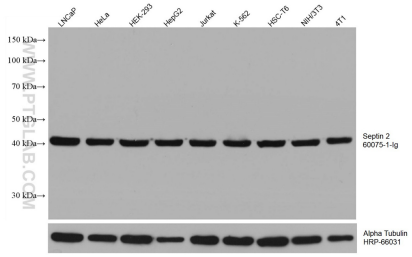
Notable Publications

Author	Pubmed ID	Journal	Application
Lei Wang	34782749	Cell Res	WB
Damián Lobato-Márquez	29752866	Cytoskeleton (Hoboken)	WB,IF
Oleg V Kim	35832887	iScience	CoIP

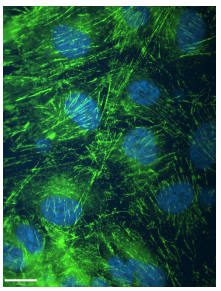
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

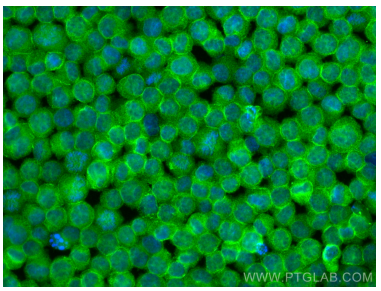
Selected Validation Data



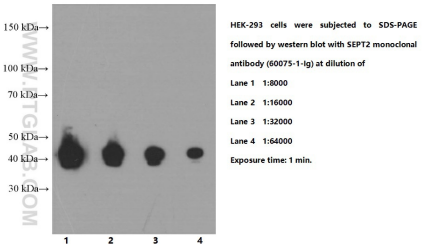
Various lysates were subjected to SDS PAGE followed by western blot with 60075-1-Ig (Septin 2 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



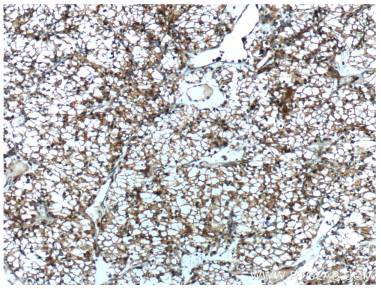
IF result of anti-Septin 2 (60075-1-Ig, 1:1000) with hTERT-RPE cell by Dr. Moshe Kim. Green: Septin 2. Blue: DNA. 1% PFA fixed.



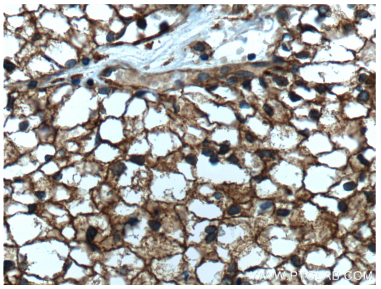
Immunofluorescent analysis of (4% PFA) fixed K-562 cells using Septin 2 antibody (60075-1-Ig, Clone: 2F3B2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



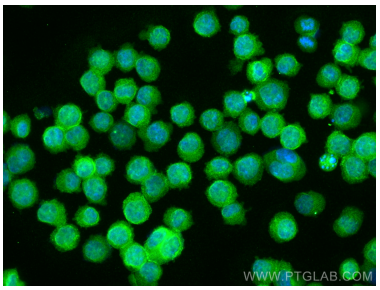
HEK-293 cells were subjected to SDS PAGE followed by western blot with 60075-1-Ig (Septin 2 Antibody) at various dilutions incubated at room temperature for 1.5 hours.



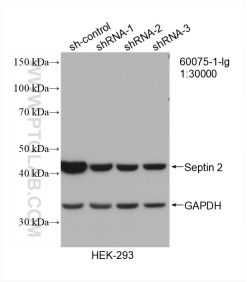
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 60075-1-Ig (Septin 2 Antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



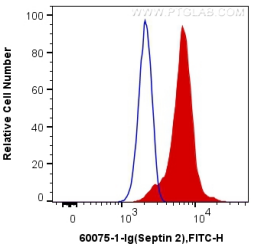
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 60075-1-Ig (Septin 2 Antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed K-562 cells using Septin 2 antibody (60075-1-Ig, Clone: 2F3B2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



WB result of Septin 2 antibody (60075-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Septin 2 transfected HEK-293 cells.



1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human Septin 2 (60075-1-Ig, Clone:2F3B2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).