

# Septin 5 Monoclonal antibody

Catalog Number: 68075-1-Ig

## Basic Information

**Catalog Number:**

68075-1-Ig

**Size:**

1000 ug/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG2205

**GenBank Accession Number:**

BC025261

**GeneID (NCBI):**

5413

**UNIPROT ID:**

Q99719

**Full Name:**

septin 5

**Calculated MW:**

369 aa, 43 kDa

**Observed MW:**

40-43 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1E2A3

**Recommended Dilutions:**

WB 1:5000-1:50000

## Applications

**Tested Applications:**

WB, FC (Intra), ELISA

**Species Specificity:**

human, mouse, rat, pig, rabbit

**Positive Controls:**

**WB :** pig brain tissue, LNCaP cells, Jurkat cells, K-562 cells, rabbit brain tissue, rat brain tissue, mouse brain tissue

## Background Information

Septin 5, a septin family member formerly called cell division control related protein 1 (CDCrel), is encoded in the 200 kb region and is abundantly expressed in the developing and adult brains of mice and humans. Although its constitutive deletion does not cause detectable structural or developmental abnormalities in the mouse brain, Septin 5 has been implicated in subtle neuronal and behavioral functions. Septin 5 is expressed in presynaptic terminals and exerts negative regulatory control over neurotransmitter release by binding to SNARE-protein, which has been implicated in neuropsychiatric disorders (PMID: 19240081). Septin 5 has 2 isoforms with the molecular mass of 39 and 43 kDa.

## Storage

**Storage:**

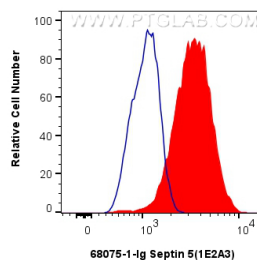
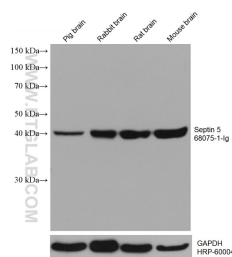
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68075-1-Ig (Septin 5 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.

1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug Septin 5 Monoclonal antibody (68075-1-Ig, Clone:1E2A3) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).