

For Research Use Only

SZT2 Polyclonal antibody, PBS Only

Catalog Number: 26121-1-PBS



Basic Information

Catalog Number:

26121-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23572

GenBank Accession Number:

BC051343

GeneID (NCBI):

23334

UNIPROT ID:

Q5T011

Full Name:

KIAA0467

Observed MW:

370 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

IP, Indirect ELISA

Species Specificity:

human

Background Information

SZT2 (Seizure Threshold 2), originally known as C1orf84, is a large protein (approximately 378 kDa) located at chromosome 1p34.2. As a core subunit of the KICSTOR complex, it localizes to the lysosomal surface and negatively regulates the mTORC1 signaling pathway by recruiting the GATOR1 complex. Loss of SZT2 function leads to constitutive activation of mTORC1, resulting in aberrant cell proliferation, overproliferation of neural stem cells, and impaired neuronal differentiation. This protein plays a critical role in nervous system development and cell growth regulation, making it an important target for research on neurodevelopmental disorders and epilepsy.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

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

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Selected Validation Data



IP result of anti-C1orf84 (IP:26121-1-AP, 4ug; Detection:26121-1-AP 1:300) with THP-1 cells lysate 1640 ug. This data was developed using the same antibody clone with 26121-1-PBS in a different storage buffer formulation.

IP result of anti-C1orf84 (IP:26121-1-AP, 4ug; Detection:26121-1-AP 1:300) with HL-60 cells lysate 1480 ug. This data was developed using the same antibody clone with 26121-1-PBS in a different storage buffer formulation.