

For Research Use Only

SZT2 Polyclonal antibody

Catalog Number: 33062-1-AP



Basic Information

Catalog Number: 33062-1-AP	GenBank Accession Number: NM_015284	Purification Method: Antigen affinity Purification
Source: Rabbit	GeneID (NCBI): 23334	Recommended Dilutions: WB: 1:500-1:1000
Isotype: IgG	UNIPROT ID: Q5T011	
Immunogen Catalog Number: AG36664	Full Name: KIAA0467	
	Observed MW: 300 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells,
Species Specificity: human	

Background Information

SZT2 (Seizure Threshold 2) is a large transmembrane protein rich in leucine-rich repeats (LRRs) and primarily localized to the lysosomal membrane. Its core molecular function is to serve as a central scaffold protein of the KICSTOR complex. Under amino acid starvation conditions, it anchors the negative regulator GATOR1 to the lysosomal surface through its scaffolding role, thereby inhibiting excessive activation of the mTORC1 signaling pathway and maintaining cellular growth and metabolic balance. Mutations in the SZT2 gene cause neurodevelopmental disorders such as early-onset epileptic encephalopathy, developmental delay, intellectual disability, and macrocephaly, highlighting its critical role in regulating neuronal excitability. Furthermore, SZT2 is involved in autophagy regulation and the maintenance of lysosomal function; its deficiency leads to impaired clearance of materials within neurons. In neuroscience research, anti-SZT2 antibodies are widely used for exploring epilepsy mechanisms, studying the mTOR signaling pathway, and analyzing neurodevelopmental disease models.

Storage

Storage:
Store at -20°C. 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

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

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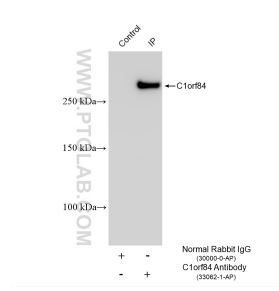
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33062-1-AP (C1orf84 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-C1orf84 (IP:33062-1-AP, 4ug; Detection:33062-1-AP 1:600) with HL-60 cells lysate 1480 ug.