

For Research Use Only

UNC13A Polyclonal antibody

Catalog Number: 55053-1-AP

4 Publications



Basic Information

Catalog Number:

55053-1-AP

Size:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001080421

GeneID (NCBI):

23025

UNIPROT ID:

Q9UPW8

Full Name:

unc-13 homolog A (C. elegans)

Calculated MW:

193 kDa

Observed MW:

193-210 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IF, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse brain tissue, human brain tissue, rat brain tissue

IP : mouse brain tissue,

Background Information

UNC13A, also named KIAA1032, belongs to the unc-13 family. It plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. UNC13A is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP). It is essential for synaptic vesicle maturation in most excitatory/glutamatergic but not inhibitory/GABA-mediated synapses. UNC13A is also involved in secretory granule priming in INS secretion. The antibody is specific to UNC13A.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------|-----------|---------|-------------|
| Fushun Fan | 28673385 | Elife | WB |
| X Rosa Ma | 35197626 | Nature | WB |
| Hong Zhang | 38758791 | Sci Adv | WB,IF |

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

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

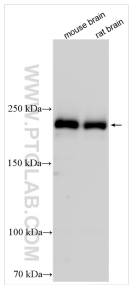
T: 4006900926

E: Proteintech-CN@ptglab.com

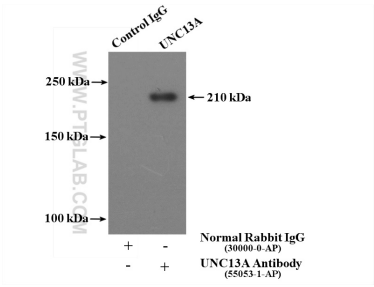
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55053-1-AP (UNC13A antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-UNC13A (IP:55053-1-AP, 4ug; Detection:55053-1-AP 1:500) with mouse brain tissue lysate 5200ug.