

For Research Use Only

UNC13A/Munc13-1 Polyclonal antibody



Catalog Number: 55053-1-AP

3 Publications

Basic Information

Catalog Number:

55053-1-AP

Size:

400 µg/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 1:1000-1:4000

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

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

WB, ColP

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
Hao Zhou	30893606	Cell Rep	ColP

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:

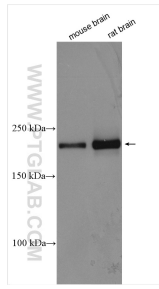
T: 4006900926

E: Proteintech-CN@ptglab.com

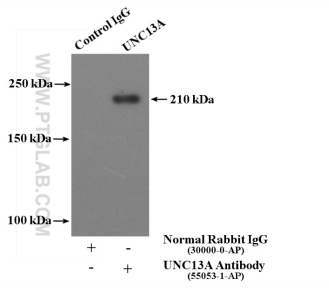
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55053-1-AP (UNC13A/Munc13-1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-UNC13A/Munc13-1 (IP:55053-1-AP, 4ug; Detection:55053-1-AP 1:500) with mouse brain tissue lysate 5200ug.