

For Research Use Only

UNC13A/Munc13-1 Polyclonal antibody



Catalog Number: 55053-1-AP **3 Publications**

Basic Information

Catalog Number: 55053-1-AP	GenBank Accession Number: NM_001080421	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 23025	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	UNIPROT ID: Q9UPW8	
Isotype: IgG	Full Name: unc-13 homolog A (C. elegans)	
	Calculated MW: 193 kDa	
	Observed MW: 193-210 kDa	

Applications

Tested Applications: WB, IP, ELISA	Positive Controls: WB : mouse brain tissue, human brain tissue, rat brain tissue IP : mouse brain tissue,
Cited Applications: WB, ColP	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

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

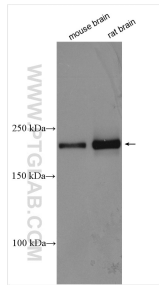
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

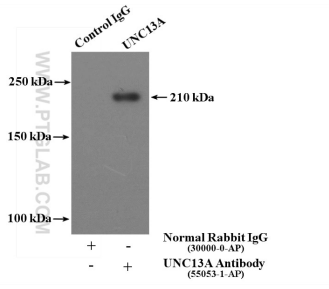
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.