For Research Use Only

## UNC13A Monoclonal antibody

Catalog Number:68483-1-Ig



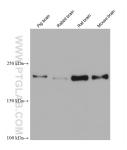
Basic Information	Catalog Number: 68483-1-Ig	GenBank Accession Numb NM_001080421	er: Purification Method: Protein A purification
	Size:	GenelD (NCBI):	CloneNo.:
	1000 µg/ml	23025	3C3A9
	Source:	UNIPROT ID:	Recommended Dilutions:
	Mouse	Q9UPW8	WB 1:2000-1:10000
	Isotype: IgG2a	Full Name: unc-13 homolog A (C. eleg	IHC 1:200-1:1000 gans) IF/ICC 1:400-1:1600
		Calculated MW: 193 kDa	
		Observed MW: 193-210 kDa	
Applications	IF/ICC, IHC, WB, ELISA WB : pig bi		sitive Controls:
			: pig brain tissue, rabbit brain tissue, rat brain
	Species Specificity: Human, mouse, rat, pig, rabbit	tis	sue, mouse brain tissue
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		C : mouse brain tissue,
			ICC : SH-SY5Y cells,
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.		
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide ar Aliquoting is unnecessary for -20	nd 50% glycerol pH 7.3.	

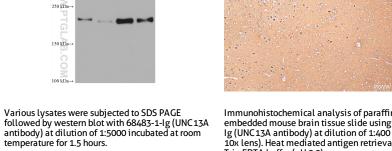
 For technical support and original validation data for this product please contact:

 T: 4006900926
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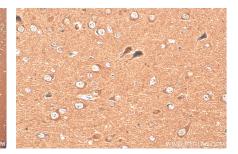
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## **Selected Validation Data**

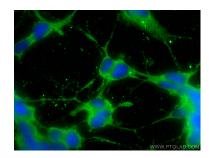




Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68483-1-Ig (UNC 13A antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68483-1-Ig (UNC 13A antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using UNC 13A antibody (68483-1-Ig, Clone: 3C 3A9) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).