

# UNC13A Recombinant antibody

Catalog Number: 83000-5-RR

## Basic Information

**Catalog Number:**

83000-5-RR

**Size:**

1000 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:**

Protein A purification

**CloneNo.:**

240017A6

**Recommended Dilutions:**

WB 1:5000-1:50000

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

IHC 1:500-1:2000

## Applications

**Tested Applications:**

WB, IHC, IP, ELISA

**Species Specificity:**

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : mouse brain tissue, rat brain tissue, pig brain tissue

IP : mouse brain tissue,

IHC : 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.

## Storage

**Storage:**

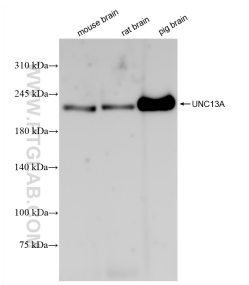
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

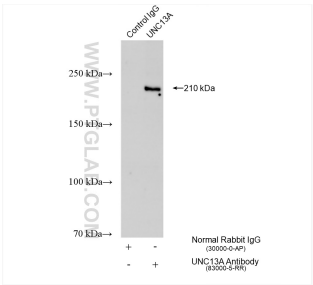
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



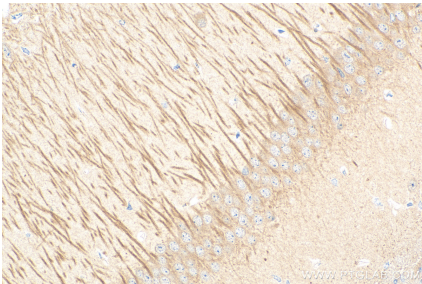
Various lysates were subjected to SDS PAGE followed by western blot with 83000-5-RR (UNC13A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-UNC13A (IP:83000-5-RR, 4ug; Detection:83000-5-RR 1:1000) with mouse brain tissue lysate 2100 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83000-5-RR (UNC13A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83000-5-RR (UNC13A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).