

Datasheet for ABIN7166241  
**anti-UNC13B antibody (AA 12-215)**

## 3 Images

[Go to Product page](#)

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | UNC13B  |
| Binding Specificity: | AA 12-215   |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This UNC13B antibody is un-conjugated   |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Recombinant Human Protein unc-13 homolog B protein (12-215AA) |
| Isotype:          | IgG   |
| Cross-Reactivity: | Human   |
| Purification:     | >95%, Protein G purified                                      |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | UNC13B  |
| Alternative Name: | UNC13B ( <a href="#">UNC13B Products</a> )  |
| Background:       | Background: Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Is involved in neurotransmitter release by acting in |

## Target Details

synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity).

Aliases: hmunc13 antibody, MGC133279 antibody, MGC133280 antibody, munc13 antibody, Munc13-2 antibody, Protein unc-13 homolog B antibody, UN13B\_HUMAN antibody, unc-13 homolog B (C. elegans) antibody, UNC13 antibody, Unc13b antibody, Unc13h2 antibody

UniProt: [O14795](#)

Pathways: [Skeletal Muscle Fiber Development](#), [Synaptic Vesicle Exocytosis](#)

## Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:200-1:500, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

Format: Liquid

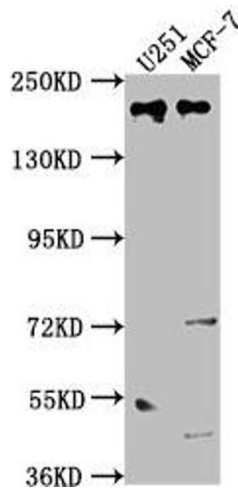
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

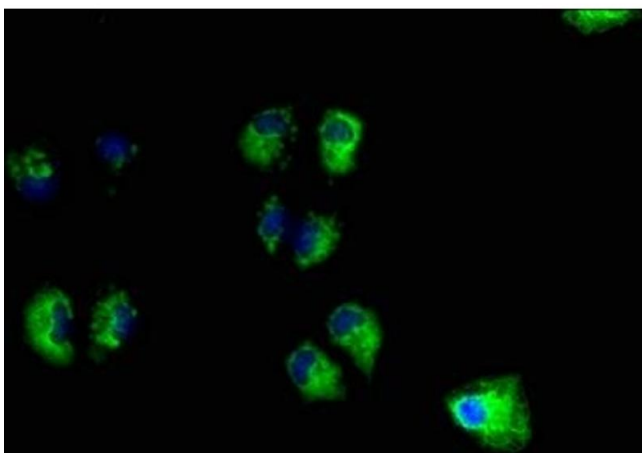
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



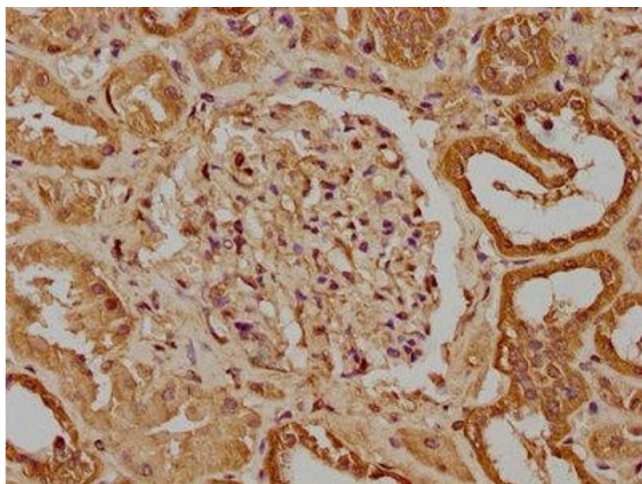
### Western Blotting

**Image 1.** Western Blot Positive WB detected in: U251 whole cell lysate, MCF-7 whole cell lysate All lanes: UNC13B antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 181, 183 kDa Observed band size: 181 kDa



### Immunofluorescence

**Image 2.** Immunofluorescence staining of HeLa cells with ABIN7166241 at 1:100, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



### Immunohistochemistry

**Image 3.** IHC image of ABIN7166241 diluted at 1:300 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.