## **Product Datasheet**

### UNC13D/Munc 13-4 Antibody NB100-41385

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.



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#### NB100-41385

UNC13D/Munc 13-4 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Product Description	
Host	Goat
Gene ID	201294
Gene Symbol	UNC13D
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Rat, Canine, Porcine, Bovine.
Immunogen	Peptide with sequence C-ETQKHKKDLHPLFD corresponding to internal region according to NP_954712.1.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA, Knockdown Validated
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Immunohistochemistry 2.5 ug/mL, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 2.5 ug/mL, Peptide ELISA Detection limit 1:128000, Knockdown Validated
Application Notes	WB: Approx. 105 kDa band observed in human T-lymphocyte and HeLa lysates (calculated MW of 123 kDa band according to NP_954712.1). IHC-P: Human thymus shows cytoplasm staining in select areas. Mouse Lung shows staining of the resperatory epithelium in wildtype but not in the knock-out, provided by Micheal Tuvim, University of Texas MD Anderson Cancer Center, Houston, USA. Use in ICC/IF reported in scientific literature (PMID 28100639).

#### Images

Western Blot: UNC13D/Munc 13-4 Antibody [NB100-41385] - RBL-2H3 from Wt or shRNA Munc13-4 lentiviral stable expression whole cell lysate. 50 ug total protein. WB image submitted by a verified customer review.

















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#### **Publications**

Man KNM. Role of Munc13 Isoforms in Regulating Large Dense Core Vesicle Exocytosis in Chromaffin Cells. J Neurochem 2010-04-21 [PMID: 20403080]

Messenger SW, Woo SS, Sun Z, Martin TFJ. A Ca2+-stimulated exosome release pathway in cancer cells is regulated by Munc13-4 J. Cell Biol. 2018-06-21 [PMID: 29930202] (WB, Human)

Woo SS, James DJ, Martin TF. Munc13-4 functions as a Ca2+ sensor for homotypic secretory granule fusion to generate endosomal exocytic vacuoles. Mol Biol Cell 2017-01-18 [PMID: 28100639] (ICC/IF, Human)

Man KN, Imig C, Walter AM et al. Identification of a Munc13-sensitive step in chromaffin cell large dense-core vesicle exocytosis. Elife 2015-11-17 [PMID: 26575293] (WB)

Man KNM. Role of Munc13 Isoforms in Regulating Large Dense Core Vesicle Exocytosis in Chromaffin Cells. Thesis. (WB, Mouse)

Zur Stadt U, Beutel K, Kolberg S et al. Mutation spectrum in children with primary hemophagocytic lymphohistiocytosis: molecular and functional analyses of PRF1, UNC13D, STX11, and RAB27A. Hum Mutat 2006-01 -01 [PMID: 16278825]

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#### Products Related to NB100-41385

NB410-28088-1mg	Goat IgG Isotype Control
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NBL1-17611	UNC13D/Munc 13-4 Overexpression Lysate

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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