

Product Datasheet

Proinsulin Antibody (CCI-17) - BSA Free NB100-73013

Unit Size: 0.2 mg

Store at 4C. Do not freeze.

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NB100-73013

Proinsulin Antibody (CCI-17) - BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	CCI-17
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Product Description	
Host	Mouse
Gene ID	3630
Gene Symbol	INS
Species	Human, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 31311313).
Immunogen	Hybridoma clone has been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with fragment of rat proinsulin conjugated with a carrier protein.
Product Application Details	
Applications	Western Blot, ELISA, Sandwich ELISA
Recommended Dilutions	Western Blot, ELISA 1:100-1:2000, Sandwich ELISA 1:100-1:2000
Application Notes	Use in Western blot reported in reported in scientific literature (PMID: 31311313). Binds specifically to proinsulin and does not bind to insulin or C-peptide. For sandwich immunoassay it is recommended to use MABs in pairs with MABs specific to N-terminal part of C-peptides I and II. Recommended pair for sandwich-type rat proinsulin I and II immunoassay is (capture-detection): NB100-73013 - NBP1-05442.



Publications

Xu X, Arunagiri A, Alam M, Haataja L et Al. Nutrient-dependent regulation of β -cell proinsulin content J Biol Chem 2023-05-20 [PMID: 37209827]

Arunagiri A, Alam M, Haataja L, Draz H et Al. Proinsulin folding and trafficking defects trigger a common pathological disturbance of endoplasmic reticulum homeostasis Protein Sci 2024-03-21 [PMID: 38511500]

Miyake M, Sobajima M, Kurahashi K, Shigenaga A et Al. Identification of an endoplasmic reticulum proteostasis modulator that enhances insulin production in pancreatic β cells Cell Chem Biol 2022-02-10 [PMID: 35143772]

Liu Y, Yang X, Zhou J et Al. OSGEP regulates islet β -cell function by modulating proinsulin translation and maintaining ER stress homeostasis in mice Nat Commun 2024-12-02 [PMID: 39622811]

Chen CW, Guan BJ, Alzahrani MR et al. Adaptation to chronic ER stress enforces pancreatic beta-cell plasticity Nature communications 2022-08-08 [PMID: 35941159] (WB, ICC/IF)

Details:

Dilutions: 1:1000

Xu X, Arunagiri A, Haataja L et al. Proteasomal degradation of wild-type proinsulin in pancreatic beta cells The Journal of biological chemistry 2022-08-18 [PMID: 35988641] (ICC/IF, Rat)

Xu X, Huang Y, Li X et al. The Role of TRAP gamma/SSR3 in Preproinsulin Translocation into the Endoplasmic Reticulum Diabetes 2021-12-02 [PMID: 34857543]

Herlea-Pana O, Eeda V, Undi RB Et al. Pharmacological Inhibition of Inositol-Requiring Enzyme 1 α RNase Activity Protects Pancreatic Beta Cell and Improves Diabetic Condition in Insulin Mutation-Induced Diabetes Frontiers in endocrinology 2021-10-05 [PMID: 34675883] (WB, Mouse)

Chen YJ, Knupp J, Arunagiri A Et al. PGRMC1 acts as a size-selective cargo receptor to drive ER-phagic clearance of mutant prohormones Nature communications 2021-10-13 [PMID: 34645803] (WB)

Huang Y, Xu X, Arvan P, Liu M Deficient endoplasmic reticulum translocon-associated protein complex limits the biosynthesis of proinsulin and insulin FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2021-05-01 [PMID: 33811688]

Liu S, Li X, Yang J et al. Misfolded proinsulin impairs processing of precursor of insulin receptor and insulin signaling in beta cells FASEB J. 2019-07-16 [PMID: 31311313] (WB, Human)





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Products Related to NB100-73013

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
236-EG-200	EGF [Unconjugated]

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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